CONSTRUCTION NEWS

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
May 1	Lewistown, Mont.	Apr. 13
May 1	Petrolea, Ont.	Apr. 20
May 1	Honolulu, Hawaii	Apr. 20
May 2	Oklahoma City, Okla.	Apr. 27
May 4	Milwaukee, Wis.	Apr. 20
	Adv. Apr. 20 and 27.	
May 4	Oxford, O.	Apr. 27
May 4	Robstown, Tex.	Apr. 27
May 6	Seaforth, Ont.	Apr. 27
May 8	St. Paul, Minn.	Apr. 13
May 8	Ft. Bragg, Cal.	Apr. 13
May 9	Wabasso, Minn.	Apr. 20
May 10	Farmington, Mich.	Apr. 27
May 15	Euclid, O.	Apr. 20
May 16	Galva, Ill.	Apr. 27
	Adv. Apr. 27.	
May 17	Sayreville, N. J.	Apr. 20
May 17	Hammond, Ind.	Apr. 20
	Adv. Apr. 20 and 27.	
May 20	Norwich, Vt.	Apr. 27
	Adv. Apr. 27.	

SEWERS

May 1	Atlanta, Ga.	Apr. 27
May 1	Decatur, Ill.	Apr. 6
May 1	Hammond, Ind.	Apr. 13
May 1	Mamaroneck, N. Y.	Apr. 20
May 1	South Hill, Va.	Apr. 27
May 1	Atlanta, Ga.	Apr. 27
May 2	Spooner, Wis.	Apr. 27
May 2	Hampton, Ia.	Apr. 27
May 3	Brooklyn, N. Y.	Apr. 27
May 4	Richmond, Va.	Apr. 27
	Adv. Apr. 27.	
May 4	Mamaroneck, N. Y.	Apr. 20
May 4	Cleveland, O.	Apr. 27
May 5	Louisville, Ky.	Apr. 27
	Adv. Apr. 27.	
May 5	Crystal Beach, Ont.	Apr. 27
May 9	Memphis, Tenn.	Apr. 27
	Adv. Apr. 27.	
May 9	Paterson, N. J.	Apr. 27
May 9	Springwells, Mich.	Apr. 13
May 15	Euclid, O.	Apr. 20
May 17	Sayreville, N. J.	Apr. 20
June 1	Lima, O.	Apr. 13

BRIDGES

May 2	Bridgeville, N. Y.	Apr. 20
May 2	Trenton, N. J.	Apr. 20
May 2	Wyoming	Apr. 20
May 3	Williamsport, Pa.	Apr. 27
May 3	South Carolina	Apr. 20
	Adv. Apr. 20 and 27.	
May 3	Kentucky	Apr. 27
May 4	San Antonio, Tex.	Apr. 27
May 5	Allison, Ia.	Apr. 27
May 5	South Carolina	Apr. 20
	Adv. Apr. 20 and 27.	
May 5	Athol, Mass.	Apr. 20
May 8	Boonville, Mo.	Apr. 27
	Adv. Apr. 27.	
May 10	Harrisburg, Pa.	Apr. 27
May 10	Converse, S. C.	Apr. 13
May 11	South Carolina	Apr. 13
May 16	Port Arthur, Tex.	Apr. 20
	Adv. Apr. 20 and 27.	
May 16	Toronto, Ont.	Apr. 27
May 17	Baltimore, Md.	Apr. 27
	Adv. Apr. 27.	
May 17	South Carolina	Apr. 13
Oct. 31	Sydney, Australia	Jan. 12

DAMS

May 12	Highland Park (Joliet P. O.), Ill.	Mar. 30

EXCAVATION AND DREDGING

May 3	Aitkin, Minn.	Apr. 27
May 6	La Jara, Col.	Apr. 27
	Adv. Apr. 27.	
May 10	Eudora, Ark.	Apr. 6
May 22	Greenville, Miss.	Apr. 20
May 29	Fayette, Ala.	Apr. 27
	Adv. Apr. 27.	

STREETS AND ROADS

Bids Close		See Eng. News-Record
May 1	Grafton, W. Va.	Apr. 13
May 1	Massachusetts	Apr. 13
May 1	Louisiana	Apr. 13
May 1	Martinez, Cal.	Apr. 20
May 1	California	Apr. 20
May 1	Redondo Beach, Cal.	Apr. 20
May 1	Missouri	Apr. 20
May 1	Ohio	Apr. 20
May 1	Glen Rose, Tex.	Apr. 20
May 1	White Plains, N. Y.	Apr. 20
	Adv. Apr. 20 and 27.	
May 1	Madison, Wis.	Apr. 20
May 1	Welland, Ont.	Apr. 20
May 1	Montesano, Wash.	Apr. 20
May 1	Glendive, Mont.	Apr. 27
May 1	Xenia, O.	Apr. 27
May 1	Long Island City, N. Y.	Apr. 27
May 1	Waycross, Ga.	Apr. 27
May 1	New Hampton, Ia.	Apr. 27
May 1	Goshen, Ind.	Apr. 27
May 1	Carroll, Ia.	Apr. 27
May 1	Lawrenceburg, Ind.	Apr. 27
May 1	Versailles, Ind.	Apr. 27
May 1	Wisconsin	Apr. 27
May 2	Waukesha, Wis.	Apr. 27
May 2	Napoleon, N. D.	Apr. 27
May 2	Grand Rapids, Mich.	Apr. 27
May 2	Ft. Wayne, Ind.	Apr. 27
May 2	Wisconsin	Apr. 27
May 2	Auburn, N. Y.	Apr. 27
	Adv. Apr. 27.	
May 2	Alabama	Apr. 13
May 2	Clearwater, Fla.	Apr. 13
May 2	Maryland	Apr. 20
	Adv. Apr. 20 and 27.	
May 2	Michigan	Apr. 20
May 2	Kaufman, Tex.	Apr. 20
May 2	Bridgeton, N. J.	Apr. 20
May 2	Carlton, Minn.	Apr. 20
May 2	Wyoming	Apr. 27
May 2	Michigan	Apr. 27
May 3	Missouri	Apr. 20
May 3	Ebensburg, Pa.	Apr. 20
May 3	Michigan	Apr. 20
May 3	Connecticut	Apr. 27
	Adv. Apr. 27.	
May 3	Kentucky	Apr. 27
May 3	Nevada	Apr. 27
May 3	Princeton, Ind.	Apr. 27
May 3	Winamac, Ind.	Apr. 27
May 3	St. George, S. I., N. Y.	Apr. 27
May 3	Oroville, Cal.	Apr. 27
May 3	Port Washington, Wis.	Apr. 27
May 4	Ft. Wayne, Ind.	Apr. 27
May 4	Elkader, Ia.	Apr. 27
May 4	Fairmont, Minn.	Apr. 27
May 4	Missouri	Apr. 27
May 4	Somerville, N. J.	Apr. 20
	Adv. Apr. 20 and 27.	
May 4	South Carolina	Apr. 20
	Adv. Apr. 20 and 27.	
May 4	Michigan	Apr. 20
May 4	Louisville, Ky.	Apr. 20
May 4	East Cleveland (Cleveland P. O.), O.	Apr. 27
May 4	Fresno, Cal.	Apr. 27
May 4	Michigan	Apr. 27
May 4	Madison, Wis.	Apr. 27
May 4	Wisconsin	Apr. 27
May 5	Nashville, Tenn.	Apr. 27
	Adv. Apr. 20 and 27.	
May 5	Tennessee	Apr. 13
May 5	Leavenworth, Kan.	Apr. 20
May 5	Missouri	Apr. 20
May 5	Ohio	Apr. 20
May 5	Continental, O.	Apr. 27
May 5	Buffalo, N. Y.	Apr. 27
May 5	Fresno, Cal.	Apr. 27
May 5	Tennessee	Apr. 27
May 5	Virginia	Apr. 27
May 5	Darien, Conn.	Apr. 20
	Adv. Apr. 20 and 27.	
May 6	West Palm Beach, Fla.	Apr. 27
May 8	Fredericksburg, Tex.	Apr. 27
May 8	Elkin, N. C.	Apr. 27
	Adv. Apr. 27.	
May 8	Richmond, Va.	Apr. 27
	Adv. Apr. 27.	
May 8	Camden, N. J.	Apr. 27
May 8	Trinidad, Col.	Apr. 20
May 8	South Carolina	Apr. 20
	Adv. Apr. 20 and 27.	
May 9	Ohio	Apr. 27
May 9	Maryland	Apr. 27
	Adv. Apr. 27.	
May 9	Louisiana	Apr. 27
May 9	Bennington, Vt.	Apr. 27
	Adv. Apr. 27.	
May 9	~~Kendallville~~, Ind.	Apr. 27
	Adv. Apr. 27.	
May 9	Radford, Va.	Apr. 27
	Adv. Apr. 27.	
May 9	McKinney, Tex.	Apr. 27
May 9	South Carolina	Apr. 20
	Adv. Apr. 20 and 27.	
May 9	Woodbury, N. J.	Apr. 20
	Adv. Apr. 20 and 27.	
May 10	Troy, N. Y.	Apr. 20
	Adv. Apr. 20 and 27.	
May 10	Newmarket, Ont.	Apr. 27
May 10	Denver, Col.	Apr. 27
May 10	Mays Landing, N. J.	Apr. 27
	Adv. Apr. 27.	
May 10	Michigan	Apr. 27
May 10	Baltimore, Md.	Apr. 27
	Adv. Apr. 27.	
May 11	Michigan	Apr. 27
May 11	Ontario	Apr. 27
May 11	Fulton, N. Y.	Apr. 27
	Adv. Apr. 27.	
May 11	South Carolina	Apr. 20
	Adv. Apr. 20 and 27.	
May 11	Honolulu, Hawaii	Apr. 20
May 12	Deer Wood, Minn.	Apr. 27
May 12	South Carolina	Apr. 20
	Adv. Apr. 20 and 27.	
May 15	St. Petersburg, Fla.	Apr. 27
	Adv. Apr. 20 and 27.	
May 15	Euclid, O.	Apr. 20
May 15	St. Paul, Minn.	Apr. 20
May 16	Lakewood, N. J.	Apr. 27
	Adv. Apr. 27.	
May 16	Alabama	Apr. 27
May 16	South Carolina	Apr. 13
May 16	Lakewood, N. J.	Apr. 20
	Adv. Apr. 20 and 27.	
May 16	Washington	Apr. 20
May 18	South Carolina	Apr. 20
	Adv. Apr. 20 and 27.	
May 18	Ocada, Fla.	Apr. 27
	Adv. Apr. 27.	
May 22	Trinidad, Col.	Apr. 20
May 25	St. Augustine, Fla.	Apr. 20
	Adv. Apr. 20 and 27.	
May 31	Manchula, Fla.	Apr. 13
June 7	Ft. Myers, Fla.	Apr. 27

INDUSTRIAL WORK

May 1	Phila., Pa.	Apr. 13
May 1	Rome, N. Y.	Apr. 20
May 1	Mankato, Minn.	Apr. 20
May 1	Phila., Pa.	Apr. 27
May 4	Norfolk, Va.	Apr. 27
May 5	River Falls, Wis.	Apr. 27
May 5	Whitewater, Wis.	Apr. 27
May 8	Beach Haven, N. J.	Apr. 27
	Adv. Apr. 27.	
May 23	New York, N. Y.	Apr. 27
	Adv. Apr. 27.	

BUILDINGS

May 1	Elizabeth, N. J.	Apr. 6
May 1	Greensboro, N. C.	Apr. 20
May 1	Sewickley, Pa.	Apr. 27
May 1	Fayetteville, N. C.	Apr. 20
May 1	Racine, Wis.	Apr. 27
May 2	Gowrie, Ia.	Apr. 13
May 3	Brooklyn, N. Y.	Apr. 13
May 3	New Lebanon, O.	Apr. 6
May 3	New Britain, Conn.	Apr. 20
May 3	Mason City, Ia.	Apr. 20
May 3	Rockingham, N. C.	Apr. 20
May 3	Brooklyn, N. Y.	Apr. 27
May 3	Jackson, Mich.	Apr. 27
May 4	New York, N. Y.	Apr. 27
May 4	Durand, Wis.	Apr. 13
May 4	Rockford, Ill.	Apr. 20
May 4	West Milwaukee (Milwaukee P. O.), Wis.	Apr. 20
May 6	Hopemont, W. Va.	Mar. 23
May 6	Nacodoches, Tex.	Apr. 27
May 8	Kaukauna, Wis.	Apr. 27
May 8	Mexia, Tex.	Apr. 20
May 9	Muncie, Ind.	Apr. 27
May 10	Johnstown, Pa.	Apr. 27
May 12	Dayton, O.	Apr. 27
May 12	Laconia, N. H.	Apr. 27
	Adv. Apr. 27.	
May 15	Virginia, Minn.	Apr. 20
May 15	Harrisburg, Pa.	Apr. 27
May 16	Glenolden, Pa.	Apr. 27
	Adv. Apr. 27.	
May 18	Dayton, O.	Apr. 27
May 20	Durham, N. C.	Apr. 13
May 20	Batavia, N. Y.	Apr. 20

FEDERAL GOVERNMENT WORK

May 1	Bridge—Nenana, Alaska	Mar. 16
May 2	Alterations—Austin, Tex.	Apr. 13
May 3	Roads—Bellevue, D. C.	Apr. 13
May 3	Dredging—Norfolk, Va.	Apr. 20
May 3	Dredging—Buffalo, N. Y.	Apr. 20
May 4	Removal of Wreck — New York, N. Y.	Apr. 13
	Adv. Apr. 13 to 27.	

Bids Close		See Eng. News-Record
May 4	Alterations, etc. — Boston, Mass.	Apr. 20
May 5	Alterations—Orlando, Fla.	Apr. 13
May 8	Boiler House Addition, etc.—Hoffman Island, N. Y.	Apr. 20
May 8	Dredge Pump, etc.—New Orleans, La.	Apr. 20
	Adv. Apr. 20 and 27.	
May 10	Piping—Bellevue, D. C.	Apr. 27
May 11	Buildings, etc.—Tobyhanna, Pa.	Apr. 27
	Adv. Apr. 20 and 27.	
May 11	Equipment—New Orleans, La.	Apr. 27
	Adv. Apr. 27.	
May 12	Plotting Room, etc. — Cape Henry, Va.	Apr. 13
	Adv. Apr. 13 and 27.	
May 15	Dredging—Phila., Pa.	Apr. 13
May 16	Dredging—Chicago, Ill.	Apr. 20
	Adv. Apr. 20 and 27.	
May 17	Boiler House, etc.—Rantoul, Ill.	Apr. 20
May 17	Partitions, etc. — Billings, Mont.	Apr. 27
	Adv. Apr. 27.	
May 18	Dredging—Phila., Pa.	Apr. 27
June 6	Canals, etc.—Great Falls, Mont.	Apr. 27
	Adv. Apr. 27.	
June 7	Machine Shop—Pearl Harbor, H. T.	Apr. 13

MISCELLANEOUS

May 1	Subway—Milwaukee, Wis.	Apr. 27
May 1	Asphalt—Montreal, Que.	Apr. 27
May 2	Road Oil, etc.—Sleepy Eye, Minn.	Apr. 27
May 2	Road Oil — Kalamazoo, Mich.	Apr. 27
May 3	Crushed Stone, etc., St. George, N. Y.	Apr. 27
May 5	Crude Oil—Fresno, Cal.	Apr. 27
May 5	Combustion Engine, etc. — Pablo Beach, Fla.	Apr. 27
May 9	Culverts, etc.—Long Branch, N. J.	Apr. 27
	Adv. Apr. 27.	
May 9	Portland Cement — Napa, Cal.	Apr. 27
May 11	Sprinkling System—New Orleans, La.	Apr. 27
May 12	Marginal Wharf—Camden, N. J.	Apr. 27
	Adv. Apr. 27.	
May 16	Dike — Saulte Ste Marie, Mich.	Apr. 13
	Adv. Apr. 13 to 27.	
May 27	Race Track, etc.—Sedalia, Mo.	Apr. 13

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Pa., Phila.—Soon takes bids laying mains in various streets. $27,000. C. E. Davis, City Hall, engr.

N. C., Black Mountain—Plans water and street improvements. $60,000. H. A. Kerlee, clk.

N. C., Rockingham—Plans extending waterworks. $15,000. W. C. Nichols, city treas.

Ill., Jacksonville—Making plans 4-6 in. mains. $30,000. Caldwell Eng. Co., City Hall, engrs.

O., Sheffield—Making preliminary plans water supply system. Morris Knowles, Inc., Hanna Bldg., Cleveland, engrs.

Ia., Gray—Voted $15,000 bonds for waterworks. W. E. Buell & Co., Davidson Bldg., Sioux City, engrs.

Ia., Villisca—Soon takes bids 100,000 gal. elevated steel water tank. T. S. DeLay, Creston, engr.

Mo., Trenton—Election soon to vote on $180,000 bonds for filtration plant. Burns & McDonnell, 400 Inter-State Bldg., Kansas City, engrs.

Tex., Childress—Voted $310,000 bonds for waterworks improvements, incl. dam across H-K Canyon, 9 mi. above here, 9 mi. pipe line, pumping plant and machinery. J. G. Carraway Co., city engrs.

Tex., Karnes City — Terrell Bartlett Engrs., Calcasieu Bldg., San Antonio, opens bids about June 1, 16,600 ft. 4-8 in. c.i. pipe, engines, pump house, etc., for city. $65,000.

N. M., Lordsburg—Voted $75,000 bonds for waterworks. H. H. Sholly, clk.

N. M., Tularosa—Voted $75,000 bonds for waterworks. W. G. Sutton, mayor.

Idaho, Idaho Falls—Election last week in May, to vote on $250,000 bonds for new pumping station, filtration plant and other waterworks improvements. Burns & McDonnell, engrs., Interstate Bldg., Kansas City, Mo., prepared plans.

Ont., Essex—Having plans prepared reservoir with 500,000 imp. gal. capacity, electrically operated domestic pump 150 gal. per minute, reserve pump 750 gal. per minute, to be operated by high speed gasoline engine, also new pumphouse. $40,000. Prices wanted on all materials. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

BIDS DESIRED

Vt., Norwich—May 20, by Directors of Norwich Water Supply Co. at office of F. W. Fitzgerald, Norwich, digging trenches, unloading and distributing pipe and refilling trenches for 3 mi., more or less, of water pipe, 10 in. and under. D. Sargent, pres.; adv. this issue.

N. C., Elkin—See "Streets and Roads."

O., Oxford—May 4, by J. T. Overholtz, village clk., improving waterworks and light system, incl. 300,000 gal. rein.-con. storage reservoir, 200,000 gal. steel tank on 100 ft. steel tower, piping at pump station, etc. G. Champe, 610 Nasby Bldg., Toledo, civil engr.

Mich., Farmington—May 10, by C. J. Grace, village clk., 250,000 gal. steel reservoir and c.i. pipe specials, hydrants and valves. $25,000. R. A. Murdock, 603 Free Press Bldg., Detroit, engr.

Ill., Galva—May 16, deep well pumping equipment, incl. oil feed engine and air compressor. A. H. Johnson, clk.; adv. this issue.

Wis., Hartford—R. A. Messmer & Bros., archts and engrs., 221 Grand Ave., Milwaukee, taking bids steel water tank 125,000-150,000 gal. capacity on 100 ft. steel tower, for A. F. Westphal.

Tex., Robstown—May 4, by Neches Co. Water Impvt. Dist. 3, at Robstown, pumping plants to deliver 18,000-20,000 gal. per minute from Nueches River for irrigation and water supply, alternate bids on pumping plants to deliver 14,000-15,000 gal. per minute, electrical equipment and 5 mi. transmission line to furnish power for motor driven pumps at river, 3 or more sets pumps, water supply and purification plant, canals, concrete structures, etc. Noted Feb. 16.

Okla., Oklahoma City—May 2, by Water Dept., 6,000 ton 4-30 in. c.i. pipe, specials, valves, hydrants, and valve boxes. A. S. Holway, supt.

Ont, Seaforth—May 6, by J. A. Wilson, clk., 1 motor driven electric fire pump, 1,000 gal. per minute, 1 gasoline driven fire pump, 1,000 gal. per minute and 2 deep well pumps. James Proctor & Redfern, 36 Toronto St., Toronto, engrs.

BIDS RECEIVED

N. Y., Buffalo—A. W. Kreinheder, comr. Pub. Wks., Municipal Bldg., opened bids April 20, furnishing (a) 100 ton 4 in. c.i. pipe, (b) 840 ton 6-16 in. c.i. pipe, from United States Cast Iron Pipe & Fdry. Co., 957 East Ferry St., (a) $45.50 per ton, (b) $41.40; J. B. Clow & Sons Co., 534 South Franklin St., Chicago, (a) $46.85, (b) $42.95. Noted April 13.

O., Cleveland—Furnishing and laying 21,000 ft. 4-60 in. c.i. mains, from J. T. Martin, 1452 West 98th St., $213,419; Post Constr. Co., 10823 Fairchild Ave., $243,804.

O., Euclid—Mains in Dorsch Rd., from A. Gaudio, 10809 Colonial Court, Cleveland, $15,051, A Marra, Ulmer Bldg., Cleveland, $17,184; Wood Rd., from B. J. Whittaker Co., 343 The Arcade, Cleveland, $2,030, J. Consoleo, Cleveland, $2,090; Neville Rd., from B. J. Whittaker, 343 The Arcade Cleveland, $2,637, J. Consoleo, Cleveland, $2,845; Victory Dr., from B. J. Whittaker, The Arcade, Cleveland, $2,640, Hadded-Mall Co., Schofield Bldg., Cleveland, $2,965.

CONTRACTS AWARDED

N. Y., Perry—Water Bd. will extend mains by day labor under supervision of K. Humphrey, water comr. $20,000.

La., New Orleans—Sewerage & Water Bd., 526 Carondelet St., 2 water boilers, 500-1,800 hp. capacity, to Lasker Iron Wks., 3201 South Lincoln St., Chicago, $28,915; electrical equipment, to Westinghouse Electric & Mfg. Co., Union Bldg., Pittsburgh, $20,575; two 36 in. centrifugal pumps, 30,000,000 to 40,000,000 gal. daily capacity, and 2 motors, to Delier Pump & Mchy. Co., 165 Bway., New York, $9,000. Noted March 30.

Ill., Kewanee—For 17,250 ft. 6 in. c.i. mains, etc., in Wethersfield addition, to Albrecht Bros., Kewanee, $23,586. Noted March 23.

Wash., Olympia — See "Streets and Roads."

Wash., Seattle—For 16 mi. pipe line from Swan Lake to Volunteer Park, to Grant, Smith & Co., Henry Bldg., $1,468,603. Noted March 30.

Ont., Seaforth—J. A. Wilson, clk., concrete reservoir, 150,000 imp. gal. capacity and pumphouse, to B & N Milling Co., Milverton; elevated steel tank 90 ft. high, 60,000 imp. gal. capacity, to Hunter Bridge Co., Kincardine. Total $30,000. Noted March 23.

Sewers

PROPOSED WORK

N. J., Haddon Heights—Soon takes bids 4 mi. concrete and brick sewers in various streets. $30,000. B. Franklin Co., Crozier Bldg., Phila., engrs.

Pa., Phila.—Soon takes bids 9½ mi. sewers. $180,000. J. A. Vogelson, City Hall, engr.

Fla., Winter Haven—May 9, to vote on $85,000 bonds laying sewers and constructing disposal plant. M. L. Hinderliter, town clk.

O., Marion—Aug. 8, to vote on $525,000 bonds for trunk line sewer. Noted March 9.

Ill., Dwight—Plans extending sewerage system. J. Kelagher, pres. Engineer not selected.

Ia., Boone—Election soon to vote on $71,000 bonds for sewage disposal plant. Burns & McDonnell, engrs., Interstate Bldg., Kansas City, Mo., prepared plans.

N. M., Artesia—Voted $50,800 bonds for sewerage system and disposal plant. C. O. Brown, mayor.

N. M., Lordsburg—Voted $35,000 bonds for sewerage system and disposal plant. H. H. Sholly, clk.

Cal., Anaheim—City of Anaheim voted $160,000 bonds and City of Santa Ana voted $149,000 bonds constructing addition to outfall sewer.

Ont., Bridgeburg—Cities of Bridgeburg and Fort Erie having plans prepared Amigari Sect. Sewer. $40,000. G. Ross, Bridgeburg, engr.

BIDS DESIRED

Vt., Bennington — See "Streets and Roads.".

N. Y., Brooklyn—May 3, by E. Riegelmann, boro. pres., Boro Hall, storm and sanitary sewers in Ave. S, from Ocean Parkway to Coney Island Ave., and outlet storm and sanitary sewers in Ocean Parkway, easterly side, from Ave. S to Ave. U, sewer in East 4th St. from Ave. M. to Ave. N, East 28th St. between Ave. I and Ave. J; sewer basins on East 8th St. at northeast and northwest corners of Caton Pl., northwest corner of Cortelyou Rd. and Ocean Ave., northeast corner of Hegeman and Van Sinderen Aves.; manhole heads and covers for year ending Dec. 31, 1922.

N. J., Paterson—May 9, by Passaic Valley Sewerage Comrs., 128 Market St., Newark, sewer connections in West, Bank, Franklin, Keen and East 5th Sts., here. J. R. Van Duyne, ch. engr.

Va., Radford—See "Streets and Roads."

Va., Richmond—May 4, by Dept. Pub. Wks., sewers in various streets. A. J. Saville, dir.; adv. this issue.

Va., South Hill—May 1, by N. G. Smith, clk., 2½ mi. 6-24 in. sewer system throughout town. $30,000. J. B. McCrary Eng. Corp., Third Natl. Bank Bldg., Atlanta, Ga., engrs.

N. C., Elkin—See "Streets and Roads."

Ga., Atlanta—May 1, by J. N. Landers, purch. agt., City Hall, 9,915 ft. 10-15 in. vitr. sanitary trunk sewer in Highland and Los Angeles Aves., to Ansley Park pumping station, 5,000 cu.yd. earth and 1,300 cu. yd. rock excav., etc. H. L. Collier, City Hall, engr.

Ga., Atlanta—May 1, by J. N. Landers, purch. agt., 1,930 ft. 5 ft. 6 in. concrete trunk sewer in White St. from Donnelly Ave. to Holderness St., 3,500 cu.yd. earth and 300 cu. yd. rock tresching, 50 cu. yd. concrete in walls, etc. H. L. Collier, City Hall, engr.

Tenn., Memphis—May 9, at office C. C. Pashby, city clk., City Hall, sanitary sewers in following districts south of Twigg Ave. and west of Yazoo and Missouri Valley R.R., Meacham Town Sewers, Majorie Bayou Basin, Orange Mound Dist. R. Paine, mayor; adv. this issue.

Ky., Louisville—May 5, by Sewerage Comrs., sewer, incl. 3 inverted siphons under Middle Fork of Beargrass Creek. J. B. F. Breed, ch. engr.; adv. this issue.

O., Cleveland—May 4, sewers in Breakwater Ave. N. W. from West 58th to West 65th Sts., Cress Rd. from Bellaire Rd. S. W. to Briggs Rd. S. W., Dixon Rd., S. W. and West 107th St. from Bellaire Rd., S. W. to Cress Rd. S. W., East 82nd St., from Decker Ave. N. E. to Wade Park Ave. N. E., East 128th St. from Luke Rd. S. E. to Abel Ave. S. E., Grovewood Ave. N. E.

Sewers (Continued)

from East 174th to East 176th Sts., Lake Shore Blvd. N. E. from Nottingham Rd. N. E. to East 185th Sts., Washington Ave. N. W. from Mulberry St. N. W. to Center St. N. W. R. Hoffman, City Hall, engr.

O., Oxford—See "Waterworks."

Wis., Spooner—May 2, sewer system, incl. 25,243 lin.ft. 6-15 in. pipe, 68 manholes, 1 combination manhole and flush tank, 6 standard flush tanks, 1 lamphole, 1 inspection pipe, sewage treatment plant, steeling tank, sludge bed and appurtenances. $100,000. L. P. Wolff, 1001 Guardian Life Bldg., St. Paul, Minn., engr.

Ia., Hampton—May 2, for 7,973 lin.ft. 8 in. vitr. pipe sewers in various streets. $25,-000. Currie Eng. Co., Webster City, engrs. Noted Jan. 12.

Ont., Crystal Beach—May 5, by F. Millington, 350,000 gal. rein.-con. activated sludge disposal plant, 2,000 ft. 36 in. concrete tile, 1,000 ft. 42 in. tile, 200 ft. 36 x 48 in. concrete lined rock trench, 500 ft. 30 x 60 in. rein.-con. $38,000. E. H. Darling, 47 Home Bank Bldg., Hamilton, engr.

BIDS RECEIVED

N. J., Jersey City—Passaic Valley Sewerage Comrs., 128 Market St., Newark, opened bids April 18 continuation and completion of Sect. 2, outfall pressure tunnel, beneath portion of New York Bay and Jersey City, from Holbrook, Cabot & Rollins Corp., 52 Vanderbilt Ave., New York, $2,124,525; P. McGovern, Inc., 50 East 42nd St., New York, $2,467,006; Coleman Bros., Inc., Boston, $2,769,625. Noted March 23.

N. J., Paterson—Passaic Valley Sewerage Comrs., 128 Market St., Newark, opened bids April 18, sewer connections in 2nd, 3rd and 20th Ave., East 33rd and Market Sts., here, from Abbott & Cestone, Montclair, $30,100; R. Diorio & Co., 370 Washington Ave., Waterbury, Conn., $36,-000; Culp Co., Inc., 412 East 37th St., $38,-014. Noted March 30.

Pa., Erie—Opened bids April 18, Myrtle St. Storm Sewer in Chestnut, Cherry, 10th and Myrtle Sts., 24, 30, 33 and 42 in. pipe, from Calabrese Co., Erie, segment block, $27,458; Penn Erie Constr. Co., Erie, concrete, $27,639. Noted April 13.

Va., South Norfolk—Opened bids April 20, sanitary sewerage system, pumping station and discharge line, from Ocie Dashiell & Son, 507 South St., Portsmouth, $132,112; Robertson-Benney Co., Norfolk, $132,975; Brune Pizzimento & Co., Hyattsville, Md., $169,611. Noted April 6.

Mich., Detroit—Dept. Pub. Wks. opened bids April 10, (1) Winchester Ave. Arm Sewer, (2) State Fair Ave. Arm Sewer, (3) Plymouth Ave. Arm west of Wyoming Ave. Sewer, (4) Plymouth Ave. Arm east of Wyoming Ave. Sewer, (5) Bates St. Sewer, Sect. 7, (6) Van Dyke Ave. Arm of Seven Mile Rd. Sewer, from J. Porath, 34 McGraw Bldg., (1) $19,941, (2) $21,396; Oakwood Constr. Co., 165 Fort Blvd., (1) $24,-125; Hammer & Co., 400 Penobscot Bldg., (1) $21,892, (2) $22,984; R. D. Baker, 1415 Penobscot Bldg., (2) $24,895, (3) $27,514, (4) $28,301, (5) $49,448, (6) 42,862; J. A. Mercier, 216 Hammond Bldg., (3) $26,941, (4) $27,274, (5) $40,466, (6) $38,367; J. Wagner, 2735 West Grand Blvd., (3) $28,-542, (5) $43,172, (6) $44,154; R. A. Mercier, 1260 Penobscot Bldg., (4) $27,771. Noted April 6.

Col., Denver—For 25,310 ft. 8 in. vitr. sanitary sewers in East Side Special Sanitary Sewer Dist. between Steel and Jackson Sts. and 32nd and 41st Aves., 103 manholes, from Gordon Constr. Co., Barclay Blk., $24,428; Collier & Sprague, 63 South Logan St., $25,906; Dennis Gibbons & Son, 1059 Downing St., $26,255.

CONTRACTS AWARDED

N. J., Madison—Sewer Com., 2 Green Village Rd., 1 sewer cleaning machine, complete, to W. H. Stewart Co., 131 George St., Boston, Mass., $875. Noted March 30.

O., Cleveland—Sewers in East 134th St. from Coit Rd. to St. Clair Ave., to P. W. Graham, 1274 West 108th St., $14,952; intercepting sewer, to J. Azzarello, 11415 Hulda Ave., $9,673; Kingsbury Run-Treadway Ave., to N. Carroccio and A. Gandeo, 14109 Benwood Ave., $13,407 and $9,673. Noted April 20.

O., Cleveland—To P. W. Graham, 1274 West 108th St., sewer in Wayside Rd. from London Rd. to Roseland Ave., $40,315; to Kossoff Co., 3182 West 25th St., Dillewood Rd. from Nottingham Rd. to north end, $2,086; to B. J. Whittaker, 343 The Arcade, East 147th St. from Westropp Ave. to Lake Shore Blvd., $4,651, Whitcomb Ave. from Kipling Rd. to St. Clair Ave., $3,220, Arabelle Ave. from Roseland to Euclid Aves., $5,296, Barrington Rd. from East 128th St. to Paxton Rd., $1,988, East 128th St. from Barrington Rd. to Irvington Ave., $1,201; to Shannon & O'Shea, 3380 West 135th St., Jenne Ave. from East 140th to East 146th Sts., $5,452, Darley Ave. from East 140th to East 146th Sts., $4,968; to M. A. Yaha, 591 Bway., Halliday and Kipling Aves., $3,849.

Wash., Chehalis — See "Streets and Roads."

Wash., Yakima—Laying trunk sewer in Bway., et. al., to R. M. Hardy, Yakima, $35,758. Noted Nov. 3.

Cal., Richmond—San Pablo Sanitary Dist., sewerage system, to Heafey, Moore & McNair, 22 Messa St., Oakland, $31,316. Noted April 13.

Ont., Toronto—For 10,000 ft. vitr. tile sanitary sewers in Larchmount and Rushbrook Aves., to J. H. McKnight, 88 St. David St., $11,106; Berkshire Ave., to Ruscica Bros., 256 Ontario St., $5,551; Marigold and Eastern Aves., to Comr. Pub. Wks., City Hall, $26,499.

Bridges

PROPOSED WORK

N. Y., Niagara—May 6, to vote on $25,000 bonds for steel highway bridge over Cayuga Creek. Plans prepared by F. H. Herman, engr., Albany. Address P. C. Goetzman, LaSalle, town clk.

N. Y., Pulaski—Oswego Co. (Oswego), plans 400 ft. concrete bridge over Salmon River, here. E. A. Howard, co. supt. of highways. State Highway Dept., Albany, will prepare plans.

N. Y., Warsaw—Buffalo, Rochester & Pittsburgh R.R., 20 State St., Rochester, and Village of Warsaw, plan viaduct on East Hill Rd. $120,000. E. E. Robinson, ch. engr.

Pa., Phila.—See "Miscellaneous" and "Railways."

Tenn., Nashville—See "Railways."

Tenn., Nashville—June 22, to vote on $375,000 bond issue, building 2 rein.-con. viaducts, one on Meridian St., other on Church St. W. W. Southgate, city engr. Freeland, Roberts & Acker, Independent Life Bldg., consult. engrs.

O., Kenmore—Summit Co. (Akron) rejected bids opened April 5, 535 ft. steel and rein.-con. bridge, here. Work will be readvertised. Noted April 13.

Kan., Cottonwood Falls—Chase Co. completed plans Bridge No. 1, three 45 ft. through girder spans; Rock Creek Bridge, alternate designs, two 70 ft. truss spans; Eldred Bridge, 18 ft. slab span, all rein.-con. and steel. E. L. Hagerman, Cottonwood Falls, engr.

Missouri—State Hy. Dept., Jefferson City, plans one 24 ft., two 20 ft., one 14 ft. and one 30 ft. rein.-con. and one 85 ft. steel pony truss spans, 18 ft. roadways, on Federal Aid Project 38, Lewis Co. A. Graham, state highway engr.

Mont., Billings—Northern Pacific R.R., 5th and Jackson Sts., St. Paul, Minn., soon takes bids enlarging present bridge over Yellowstone River here, by adding second track, three 160 ft. concrete spans, extending piers, etc. $200,000. M. F. Clements, c/o owner, bridge engr.

Tex., New Braunfels—Voted $75,000 bonds for bridge over Comal River, incl. drainage and street improvements. Address C. Alves, mayor.

BIDS DESIRED

Pa., Clarks Ferry (Duncannon P. O.)—May 10, by H. W. Gough, controller Dauphin Co., Court House, Harrisburg, 130 ft. rein.-con. bridge over Juniata River here, connecting Dauphin and Perry Counties. $50,000. C. M. Hershey, Court House, Harrisburg, engr. Noted March 23 under Harrisburg.

Pa., Pittsburgh—Pennsylvania R.R., Penn Sta., receiving bids 452 ft. viaduct with 8 arches, steel encased in rein.-con., over railway tracks on Homewood St. R. M. Trimble, Penn Sta., asst. ch. engr.

Pa., Williamsport—May 3, by Comrs. Lycoming Co., 2 rein.-con. bridges, steel girders, one 45 ft. long at Trout Run and other 50 ft. long at Salladsburg. M. H. Krause, Susquehanna Trust Bldg., engr.

Md., Baltimore—May 17, by Bd. of Awards, Warren Bridge and approaches over Gunpowder River, Contr. 55. H. G. Perring, ch. engr.; adv. this issue.

Virginia—See "Streets and Roads."

N. C., Elkin—See "Streets and Roads."

Kentucky—May 3, by State Hy. Comn., Frankfort, 2 concrete and steel bridges on Pikeville-Williamson Rd., one 80 ft. steel clear span over Johns Creek, Station 465 plus 50; one 100 ft. steel clear span over Coon Creek, Station 66 plus 12, for State and Pike Co. P. Butler, Frankfort, engr.

Ia., Allison—May 5, at office Auditor Butler Co., one 40 ft. and one 24 ft. I-beam, and one double 90 ft. pony truss. D. W. Burch, Allison, co. engr.

Mo., Boonville—May 8, at office C. G. Miller, city clk., 570 ft. approach to highway bridge over Missouri River. Harrington, Howard & Ash, Kansas City, consult. engrs.; adv. this issue. Noted Jan. 12.

Tex., San Antonio—May 4, by Terrell Bartlett Engrs., Calcasieu Bldg., 97 ft. rein.-con. and steel bridge over San Antonio River on Navarre St., $25,000; 150 ft. rein.-con. bridge over San Antonio River on Garden St., three 50 ft. spans. $40,000. D. D. Harrigan, city engr. Noted April 13.

Ontario—See "Streets and Roads."

Ont., Toronto—May 16, by C. A. Mcguire, mayor, removing existing bridge and constructing 3 span arch bridge, concrete piers and abutments, 800 ft. long, over Don River on Gerrard St. $750,000. R. C. Harris, City Hall, comr. wks. Noted Feb. 23.

BIDS RECEIVED

Pa., Media—Opened bids April 18, at office G. T. Wadas, controller Delaware Co., for Wawa Bridge, from O. B. S. Co., 5617 Kingsessing Ave., Phila., $16,979; L. B. Hoover, Pottstown, $25,078; G. H. Judd, Chester, $27,004. Noted April 6.

O., Columbus—See "Dams."

Tex., Galveston—Galveston Co. 293 ft. rein.-con. trestle bridge over Dickinson Bayou on State Highway 2, with thirteen 20 ft. concrete deck girder spans, approaches and one 30 ft. center span, from Harris & Powell, Tyler, $23,820; F. P. McElwrath, Corsicana, $26,691; C. S. Basham & Son, Houston, $28,371. Noted March 30.

B. C., Victoria—City Clerk opened bids April 17, removing old bridge and building steel superstructure of Johnson St. Bridge, from Canadian Bridge Co., Walkerville, Ont., $197,400; J. Coughlan & Son, Front and Columbia Sts., Vancouver, $219,300; Dominion Bridge Co., 285 Beaver Hall Hill, Montreal, Que., $227,900. Noted March 13.

CONTRACTS AWARDED

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, Carpenter Bridge, Rockton Twp., Winnebago Co., to R. Mann, 2031 3rd Ave., Rockford, $26,137.

Ia., Atlantic—Cass Co., 38 box and 12 circular culverts, 1 through and 1 pony truss, moving and reerecting 2 old trusses, to Wickham Bridge and Pipe Co., 302 Commercial Natl. Bank Bldg., Council Bluffs, $84,750. Noted March 23.

Ia., Ottumwa—Wapello Co. 34 box culverts and extensions, and 1 through truss, to Ottumwa Supply & Constr. Co., Ottumwa, $27,686, concrete figures $17.91 per cu.yd.; 25 box culverts and extensions, and 1 pony truss, to C. A. Dickey, Hedrick, $21,078, concrete figures $17.71 per cu.yd. Noted March 16.

Ia., Waverly—Bremer Co., 6 culverts and extensions, 1 pony truss, to Parsons & Meyer, Dyersville, $6,839; 2 pony trusses and 1 slab, to Steinman & Wagner, Swea City, $22,142; 1 through truss, A. Olson Constr. Co., Waterloo, $9,160; 1 pony truss, Waugh & Tackman, Clarksville, $2,390.

Missouri—State Hy. Dept. at div. office Galena, two 180 ft. steel truss spans with two 60 ft. pony truss approach spans, 18 ft. roadway, over White River, on Sta. 1974, state road from Reed Springs to Blue Eye, Federal Aid Project 161, Sect. D, Stone Co., to Short & Bremer, Monett, $30,023. Noted April 20.

Missouri—See "Streets and Roads."

Tex., Georgetown—Williamson Co. to Brown & Root, Georgetown, 327 ft. bridge over Berrys Creek 4 mi. north of here, $27,349; 326 ft. bridge over North San Gabriel River, here, $30,193; 367 ft. bridge over San Gabriel River at Circleville, $37,-992. Noted April 13.

Tex., Nacogdoches—Nacogdoches Co. 125 ft. steel through riveted bridge over Angelina River between Rusk and Nacogdoches Counties, to Austin Bros. Bridge Co., Coombs St., Dallas, $19,986. Noted March 23.

Ont., London—Grand Trunk Ry. will build concrete and steel bridge with two 60 ft. spans, and 45 ft. center span, over railway tracks on North River Rd., by day labor. $45,000. C. Forrester, London, supt.

Dams

PROPOSED WORK

Tex., Childress—See "Waterworks."

Que., Donnacona—Donnacona Paper Co. Ltd., plans wooden dam, 21 ft. high, 234 ft. long, with 1,650,000,000 cu.ft. water capacity, Jacques-Cartier River. $50,000.

Dams (Continued)

BIDS RECEIVED

O., Columbus—W. H. Duffy, dir. Pub Serv. opened bids April 20, O'Shaughnessy Dam, 1,400 ft. long, 70 ft. high, also bridge, 15 mi. north of here, Scioto River, from Columbus Constr. Co., Clinton Bldg., $1,001,616; Thompson-Starrett Co., 79 Wall St., New York, $1,115,119; J. F. Casey Co., Union Ave., Pittsburgh, Pa., $1,173,256. Noted March 23.

Railways

PROPOSED WORK

Pennsylvania—City of Phila., Pennsylvania R.R., Broad St. Sta., Phila. and Phila. & Reading R.R., Reading Terminal, Phila., plans relocating tracks, bridges, etc. and widening Delaware Ave. along Delaware River. $1,400,000. I. W. Phillips, City Hall, mch. engr.

Tennessee—Nashville, Chattanooga & St. Louis Ry., 1000 Broad St., Nashville, plans 1.1 relocation on Nashville Div. near Nashville, incl. 2 steel girder bridges over Harpeth River. $160,000. H. McDonald, ch. engr.

Hawaii—Rapid Transit Co., Honolulu, plans double tracking on King St.; making Fort St. one way thoroughfare with one car line; also plans following extensions, from Kaimuki to Ft. Ruger, then to Kahala Dist.; School St. from King St. to Asylum Rd.; Kapiolani Park to Kaimuki, Honolulu. $1,000,000. H. S. Johnson, c/o owner, ch. engr.

BIDS DESIRED

Ohio—Sandusky Cement Co., Engineers Bldg., Cleveland, taking bids railroad siding, tracks and wood ties, at Silica, near Toledo. $50,000. W. B. Rawson, c/o owner, engr.

BIDS RECEIVED

California—Bd. Pub. Wks., constructing Taraval St. extension of Municipal Ry. system, San Francisco, from Eaton & Smith, 407 11th St., San Francisco, $42,285; J. McElroy, 180 Jessie St., San Francisco, $45,286; Continental Constr. Co., Los Angeles, $48,733. Noted April 6.

Excavation and Dredging

PROPOSED WORK

N. Y., Dunkirk—Rejected bids opened April 18, straightening course of Hyde Creek and improving many acres of land. $60,000. Will readvertise. Noted April 13.

Minn., Redwood Falls—Redwood Co. had plans prepared for 6 sections Co. Ditch 52, $170,939; 4 sections Co. Ditch 33, $119,390. B. J. Reynolds, Redwood Falls, and B. J. and G. P. Smith, Central Bank Bldg., St. Paul, engrs. on respective jobs.

Ark., Texarkana—Index Sulphur D. D. of Miller Co. having plans prepared open ditches and levees with pumping plant to reclaim 125,000 acres along Red River. Morgan Eng. Co., Goodwyn Institute, Memphis, Tenn., engrs.

BIDS DESIRED

Ala., Fayette—May 29, by Bd. Drainage Comrs., 42 mi. drainage ditches, in Fayette and Lamar Co. D. D. 1. W. M. Suddeth, chn.; adv. this issue.

Minn., Aitkin—May 3, by Auditor Aitkin Co., County Ditch 37, 41 mi. ditch, 661,526 cu.yd. excav., 19 bridges, level 27 mi. roadway, etc., $101,842.

Col., La Jara—May 6, by Bd. Dir. Morgan D. D., Conejos Co., underground tile drainage laterals and main outlet drainage canal. R. E. Cuniff, secy.; adv. this issue.

BIDS RECEIVED

N. Y., Rochester—C. L. Cadle, supt. Pub. Wks., Albany, opened bids April 18, completing excavating of canal channel in Genesee River and placing rock spoil protection along river bank, here, Contr. 202, from J. Stewart & Co., 30 Church St., New York, $339,902; Dunbar & Sullivan Dredging Co., Buffalo, $388,005; Cleveland & Sons Co., Brockport, $442,680. Noted March 23.

Wis., Racine—Opened bids April 14, furnishing 76,532 ft. 8-24 in. tile, 2 manholes and 7 bulkheads, f.o.b. Sylvania, Corliss and Franksville, from Waukesha Cement Tile Co., 1107 White Rock Ave., Waukesha, $23,809, Badger Cement Tile Co., Plymouth, $24,439, Natl. Drain Tile Co., St. Marys Ave., Terre Haute, Ind., $24,801; laying above tile, (a) exclusive of hauling, (b) incl. hauling, E. Johnson, Callender, Ia., (a) $19,519; Blackmore & Jackobson, Nevada, Ia., (b) $21,289; C. L. Hanson, Charles City, Ia., (a) $21,260, (b) $23,260; furnishing and laying tile and doing all work necessary to complete job, Streator Drain Tile Co., Streator, Ill., $48,624. Noted April 6.

CONTRACTS AWARDED

Ia., Carinda—Page Co. new channel for Middle Tarkio River, D. D. 20, 347,513 cu. yd. excav., to Callahan-Walker Constr. Co., 322 Peters Trust Bldg., Omaha, Neb., $0.0874 per cu.yd. Noted March 30.

Minn., Ada—Norman Co. Ditch 45, 42,897 cu.yd. excav. in main ditch, 15,611 cu. yd. excav .in lateral 5, etc., also repairing Ditches 11, 18 and 38, 82,186 cu.yd. excav., 2¼ mi. road leveling, 5½ mi. leveling spoil bank, to Pratt & Cummings, Vergo, $8,000 and $9,237 respectively. Noted March 30.

Minn., Worthington—Nobles Co., Ditch 16, 69,097 lin.ft. 6-36 in. tile, 3,000 ft. 30 and 36 in. double strength tile, 2 retaining walls, 10 surf inlets, to F. F. Esser, Mankato, $69,441. Noted April 6.

Mo., Savannah—Nodaway Island D. D., excavating in open ditch, tile drainage pipe, to Sargent Tile Ditcher Co., Ft. Dodge, Ia., $27,800.

Streets and Roads

PROPOSED WORK

N. Y., Albany—Bd. Contract & Supply soon takes bids repairing various streets, asphalt. To exceed $25,000. P. J. Manwiller, secy.

N. Y., Dexter—Making plans paving various streets, brick and concrete. $35,000-$40,000. F. B. Williams, pres. village trustees.

N. Y., Geneseo—Plans paving 2nd St. $30,000-$40,000.

N. Y., Lyons Falls—Plans resurfacing and paving various streets, bituminous macadam. $53,500. Address L. R. Hoffman, pres. Village Bd.

Pa., Phila.—Soon takes bids paving 10 mi. various streets, $90,000, grading and curbing portions 49th St., $85,000. F. C. Dunlap, City Hall, engr.

Pa., Pittsburgh—Plans widening Penn Ave. $110,000. C. M. Reppert, city engr.

Pa., Pittsburgh—Plans repaving with brick and block stone 4,000 ft. Spring Garden Ave. from Firth St. to Mutzig Rd., $40,000; 240 ft. 32nd St. from Liberty to Penn Aves., and 1,500 ft. Milwaukee Ave. from Herron to Adelaide Sts., $30,000; 2,000 ft. Mt. Oliver Ave. from Amanda St. to Warrington Ave., $28,000; 3,500 ft. Center Ave. from Fullerton to Kirkpatrick Sts., $50,000; repaving with brick 2,300 ft. Boggs Ave. from Soffell to Warrington Sts., $30,000; repaving with asphalt 5,400 ft. East St. from Royal to Melrose Sts., $35,000; 5,000 ft. Hamilton Ave. from 5th to Braddock Aves., $64,000; 2,900 ft. Warrington Ave. from Brownsville Ave. to Haberman St., $41,000; 2,800 ft. Smithfield St. from Water St. to Liberty Ave., $32,000. C. A. Finley, City County Bldg., dir. pub. wks.

Pa., Warren—Warren Co. plans to improve highways. $750,000.

Virginia—State Hy. Dept., Richmond, plans grading and surfacing 4.86 mi. road from Lee Co. line to Purchase. Project 73, Scott Co., $30,000; 8.2 mi. road between Pendleton and Louisa, 16 ft., bituminous macadam, Project 109, Louisa Co., $135,000; 9.9 mi. road between Vernon Hill and Houston, Project 148, Halifax Co., $25,000. G. P. Coleman, highway comr.

W. Va., Fairmont—Comrs. Marion Co. plan constructing roads in Union Dist. District voted $400,000 bonds for project. S. B. Miller, Fairmont, engr.

N. C., Black Mountain—See "Waterworks."

N. C., Concord—Plans 33,000 sq.yd. paving. $85,000. R. I. Long, Concord, engr.

N. C., Durham—Plans paving various streets. $250,000. R. W. Rigsbee, city mgr.

N. C., Henderson—Plans paving various streets, concrete or asphalt. $50,000.

N. C., High Point—Voted $375,00 bonds paving various streets. Taplan & Perkins, High Point, engrs.

N. C., Rockingham—Plans improving various streets. $185,000. W. C. Nichols, clk. and treas.

Fla., Dade City—Comrs. Dade Co. cancelled contract for 50 mi. of roads. Noted March 30.

Fla., Okeechobee—Okeechobee Co. having plans prepared paving 15 mi. Bassenger-Indiantown Rd., probably rock and oil. $550,000. E. J. Nelson, co. engr.

Fla., Tavares—Lake Co. plans to vote on $40,000 bonds sand clay surfacing 10 mi. roads out of Yalaha; $50,000 bonds 13 mi. roads out of Mascotte; $50,000 bonds 13 mi. roads out of Groveland; $40,000 bonds 10 mi. roads out of Howey; $40,000 bonds 10 mi. Groveland-Howey Rd.; all foregoing 9 ft.; $45,000 bonds 10 mi. road out of Okahumka 9-15 ft. G. E. Heller, Tavares, engr

Fla., Winter Haven—May 9, to vote on $135,000 bonds paving various streets. M. L. Hinderliter, town clk.

La., St. Francisville—Police Jury of West Feliciana Parish will sell $230,000 bonds May 10, for roads in Dist. 1. T. B. Lawrason, pres.

Kentucky—Lawrence Co. has $62,500 bond issue available for road construction; Floyd Co. $150,000. Harlan Co. $550,000; Kenton Co. $500,000; Garrard Co. $190,000; Hopkins Co. $50,000; Caldwell Co. $50,000; Johnson Co. $150,000; Pike Co. $750,000; Letcher Co. $250,000; Grant Co. $250,000; Menifee Co. $60,000 and Crittenden Co. $125,000. J. S. Boggs, Frankfort, state highway engr.

Ohio—Dept. Highways and Pub. Wks., Columbus, rejected bids received April 10, grading, bridging and paving 3.33 mi. Sect. "C" Youngstown-East Liverpool Rd., Mahoning Co., concrete or bituminous macadam. Noted April 6.

Ohio—Dept. Highways and Pub. Wks., Columbus, cancelled bids which were to have been opened April 18, grading, bridging and paving roads in following counties:

Defiance Co., Sect. "A" Defiance-Holgate Rd., 3.581 mi. rein.-con., Kentucky rock asphalt or bituminous macadam.

Defiance Co., Sect. "A" Payne-Hicksville Rd., 2.024 mi., rein-con., Kentucky rock asphalt or bituminous macadam.

Mercer Co., Sect. "Celina," Celina-Greenville Rd., 0.318 mi., brick, state to furnish brick or rein.-con. Noted April 6.

Ohio—Dept. Highways and Pub. Wks., Columbus, cancelled bids which were to be opened April 20, grading, bridging and paving 3.045 mi. Sect. "L-1" and "L-2" Lima-Sandusky Rd., and 0.397 mi. Sect. "Beaver Dam" Lima-Sandusky Rd., Allen Co. Noted April 20.

Ohio—Dept. Highways and Pub. Wks., Columbus, cancelled bids which were to be opened May 1, grading, bridging and paving 2.512 mi. Sect. "A" Carrollton-Malvern Rd., Carroll Co. Noted April 20.

O., Garfield Heights (Cleveland, P. O.)—Rejected bids opened April 10, grading and paving East 106th St., Homeworth and Wolf Aves. Noted April 6.

O., Marysville—Union Co. plans improving sections of 13 roads. $150,000.

Ind., Evansville—Plans grading and paving 2,100 ft. Bray Ave. from Lincoln Ave. to Division St., 63,000 sq.yd. vitr. brick, asphalt or bituminous concrete on concrete, 3,200 lin.-ft. stone curbing, 3,200 lin.-ft. gutter brick, $34,000. J. D. Saunders, city engr.

Minn., Cloquet—Making plans paving various streets, $50,000. J. Wilson, 1st Natl. Bank Bldg., Duluth, engr.

Minn, Winnebago—Takes bids about June 1, paving 8 blocks, various types of pavement, $25,000. R. L. McMillen, clk.

Montana—State Hy. Dept., Helena, soon receives bids grading and paving 7 mi. Federal Aid Project 78, Granite Co.; grading and gravel surfacing 4 mi. Federal Aid Project 44-B and 4 mi. Federal Aid Project 82-B, Gallatin Co., 6 mi. Federal Aid Project 154, Toole Co., 10 mi. Federal Aid Project 160-C, Yellowstone Co., 2.5 mi. Federal Aid Project 164, Deer Lodge Co., 13 mi. Federal Aid Project 60-B, Park Co. J. N. Edy, ch. highway engr.

Montana—State Hy. Dept., Helena, soon takes bids grading and paving 0.456 mi. road in Glendive, Dawson Co., 16,700 sq.yd. concrete, bitulithic or Topeka, 3,000 cu.yd. excav., 47 cu.yd. concrete, etc., $50,000; surfacing 20 mi. Federal Aid Project 132 A. from Gilford west, Hill Co., 70,000 cu.yd. excav., 20,500 yd. gravel surfacing, one 60 ft. steel span, etc., $92,000; grading 7.3 mi. road from Rondo south on Rondo-Yarnell Rd., Lincoln Co., 22,000 cu.yd. common, 13,000 intermediate and 11,000 cu.yd. rock excav., etc. $43,000. J. N. Edy, state highway engr.

Missouri—State Hy. Dept., Jefferson City, plans 8.37 mi. road from Canton southward and westward, Federal Aid Project 38, Lewis Co., 35,638 cu.yd. earth excav., 18,060 cu.yd. borrow 79,491 sq.yd. gravel pavement, 347.4 cu.yd. concrete masonry, etc.; 7.94 mi. road north and south through LaGrange Special Rd. Dist., Federal Aid Project 39, Lewis Co., 30,882 cu.yd. earth excav., 5,692 cu.yd. borrow, 69,002 sq.yd. broken stone base course, and gravel surface course, 5,689 sq.yd. gravel pavement, 136.6 cu.yd. concrete masonry, etc. A. Graham, state highway engr.

Tex., Dallas—Dallas Co. making plans paving 19 mi. Seagoville Rd. from city limits to Kaufman Co. line, rock bound macadam with asphalt surface, $370,000. Nagle Witt Rollins, Courthouse, engrs.

Tex., Memphis—May 9, to vote on $65,000 bond issue, street paving and improvements. Montgomery, Ward & Co., c/o J. Montgomery, Wichita Falls, consult. engrs.

Streets and Roads (Continued)

Tex., New Braunfels—See "Bridges."

Tex., Sherman—May 12, to vote on $50,-000 bond issue, street paving. O. J. S. Ellingson, city engr. and mgr.

Cal., San Mateo—Voted $35,000 bonds paving intersections in Hayward Park and East San Mateo Dist., $50,000 bonds widening and paving Baldwin Ave. G. S. Whitehead, San Mateo, engr. Noted April 6.

Cal., Woodland—Colusa Co. having plans prepared improving 4 mi. road along Sacramento River between By-Pass and Keisel Station; 2 mi. in West Sacramento between Church Blvd. and Gilde Station; 1 mi. road from Wood towards Elkhorn. Alternate bids will be asked for 3½ in. asphaltic concrete base with 1½ in. surface, and 5 in. hydraulic concrete pavement. A. Proctor, Court house, engr.

Quebec—B. Michaud, deputy minister of Rd. Dept., Parliament Bldgs., Quebec, rejected all bids April 3, graveling Montreal-Sherbrooke and St. Lambert-Levis Highways. Noted March 16.

Ont., Chatham—Chatham Twp. having plans prepared and takes bids about May 1, 15 mi. highway from Dresden to Wallaceburg. $400,000. W. G. McGeorge, Harrison Hall, engr.

Ont., Ingersoll—Plans to pave Bell St. $35,000. Engineer not selected.

Ont., Palmerston—Having plans prepared paving Main and William Sts., concrete. $42,000. Prices wanted on cement. H. Hyndman, City Hall, engr.

Ont., St. Thomas—Plans 10,000 sq.yd. asphalt concrete on concrete with curbs and gutters. $48,000. Prices wanted on all materials. W. C. Miller, City Hall, engr.

BIDS DESIRED

Vt., Bennington—May 9, by President of Village Trustees, for 8,350 sq.yd. rein. cement concrete pavement, 5,200 lin.ft. curb and gutter, 2,700 cu.yd. excav., 1,000 lin.ft. vitr. clay or concrete sewer pipe, etc. W. P. Hogan, clk.; adv. this issue.

Connecticut—May 3, by C. J. Bennett, comr. State Hy. Dept., Hartford, paving sections of state highways in towns of Columbia, Hebron, Marlboro, East Hampton, West Haven, Waterbury, Wolcott, Milford, Orange, Washington, Woodbury, Thompson, Plainfield and Prospect; adv. this issue.

N. Y., Auburn—May 2, by J. P. Jaeckel, city mgr., improving Court, Dill and South Sts. from Lincoln to Swift Sts. M. F. Dullea, city engr., adv. this issue.

N. Y., Buffalo—May 5, by Dept. Pub. Wks. grading and laying rein.-con. base on Montclair Ave., Maywood Pl., Fround, Fisher, Poultney, Deshler, Quincy and Schutrum Sts., paving Parkridge and Midwood Aves., Fuller, Fredo, Spann and Jackson Sts.; repaving Main and Ellicott Sts. To exceed $50,000.

N. Y., Fulton—May 11, by G. W. Hackett, comr. Pub. Wks., improving streets. $200,000; adv. this issue.

N. Y., Long Island City—May 1, by M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., repaving Bodine St. from Vernon Ave. to westerly house line of Boulevard, granite block; Cooper Ave., etc., and Merrick Rd., sheet asphalt; curbing and laying sidewalks on William and Nurge Sts.; repairing sheet asphalt pavements in 1st and 2nd Wards.

N. Y., St. George—May 3, by M. J. Cahill, pres. Richmond Boro, Boro Hall, repaving within franchise area of Richmond Light & Railroad Co. on Richmond Terrace from Van to Bodine Sts., also on Richmond Terrace from Davis to Campbell Aves., granite block.

N. J., Camden—May 8, grading and concrete paving 1.6 mi. Ellsworth-Coleston Rd., $75,000; 4,000 ft. Clementon-White Horse Pike Rd., $50,000. J. J. Albertson, Court House, engr.

N. J., Lakewood—May 16, by Com. Lakewood Twp. reconstructing State Highway Route 4 from Tappens Corner to Central Ave. G. Garon, clk.; adv. this issue.

N. J., Mays Landing—May 10, by Bd. Freeholders Atlantic Co., Guarantee Trust Bldg., Atlantic City, reconstructing section of Mays Landing-Downstown Rd. known as Buena Vista Sect. F. W. Willetts, clk.; adv. this issue.

Maryland—May 9, by State Rds. Comn., Baltimore, sections highway in Baltimore Co., Contr. B-47; Caroline Co., Contr. Co. 22; Dorchester Co., Contr. D-23; Somerset Co., Contr. S-15. J. N. Mackall, chn.; adv. this issue

Md., Baltimore—May 10, by Bd. of Awards, concrete paving Paper Mill Bridge Rd., Contr. 54, Water Dept. H. G. Perring, ch. engr., adv. this issue.

Virginia—May 5, by G. P. Coleman, comr., State Hy. Dept., Richmond, surfacing 11.32 mi. Route 6 between Alexandria and Fairfax, 106,182 sq.yd. bituminous macadam, 41,000 cu.yd. excav., 37,370 cu. yd. concrete; 40 ft. low truss bridge over Holmes Creek, concrete floor, also repairs to another bridge. State Highway Dept., 116 South 3rd St., Richmond, engrs.

Va., Radford—May 9, by P. J. B. Murphy, city mgr. and City Council at City Hall, paving and laying sewers, etc., in various streets; adv. this issue.

Va., Richmond—May 8, at office Bd. Pub. Wks., paving various streets. A. J. Saville, dir.; adv. this issue.

N. C., Elkin—May 8, by Town Bd. Comrs., grading and paving Gwyn Ave., West Main, Church, Market and East Main Sts.; rein.-con. bridge over Elkin Creek; 5,000 lin.ft. sewers; 5,000 lin.ft. water mains, etc. J. W. Ring, mayor; adv. this issue.

Ga., Waycross—May 1, by Comrs. Ware Co., 2,865 mi. Waycross-Homerville Rd. between Maner and Ware-Church Co. line, incl. 3,894 cu.yd. earth excav., 37,942 cu. yd. borrow, 3,325 sta. yd. overhaul, 1,044 lb. reinforcing, 7,540 cu.yd. top soil, state to furnish cement. W. R. Neel, Atlanta, highway engr.

Fla., Ft. Myers—June 7, by Comrs. Lee Co., clearing, grading and paving on rock base, 8.5 mi. New Prospect Short Cut, $70,-000. R. P. Ransom, Ft. Myers, engr.

Fla., Ocala—May 18, 50,000 sq.yd. paving. J. W. Turner, Lakeland, engr.; adv. this issue.

Fla., St. Peterburg—May 15, by Director of Finance, grading, curbing, paving, etc., 94,400 sq.yd. various streets, avenues, courts or alleys, vitr brick or asphalt block; adv. this issue.

Fla., St. Petersburg—May 15, by Director of Finance, grading, curbing, paving, etc., 15,850 sq.yd. streets, avenues, courts or alleys, vitr. brick or asphalt block; issue.

Fla., West Palm Beach—May 6, by Palm Beach Co., 4 projects 10 mi. road north from Belleglade, 6 mi. Canal Point to Pahokee, 5 mi. Pahokee to Palm Beach Canal, all 18 in. marl, rock and sand, 15 ft. wide, also throwing up road bed after clearing and putting in bridges and culverts Belleglade to Bee Co. 5 mi.

Alabama—May 16, by State Hy. Dept., Montgomery, grading and surfacing 5.307 mi. Sects. A and D of road between Alexander City and Jacksons Gap, Sect. A beginning at Alexander City and extending 3.745 mi. towards Jacksons Gap and Sect. D beginning at Jacksons Gap and extending 1.562 mi. towards Alexander City, Tallapoosa Co., 10.53 acres clearing, 1,434 lin.ft. 18-48 in. pipe, 146.3 cu.yd. concrete, 40,334 cu.yd. common and 5,348 cu.yd. rock excav., 24,000 sta.yd. overhaul, 12,456 cu.yd. crushed stone or slag base, 56,050 sq.yd. bituminous macadam penetration method, 4,600 cu.yd. local gravel within 1 mi. haul, 1,200 cu.yd. clay binder within 1 mi. haul, 2,000 cu.yd. one half mi. units additional haul, 16,500 sq.yd. mixing sand-gravel and clay, 2,900 cu.yd. gravel surfacing to be screened, 10,990 cu.yd. imported gravel within 1 mi. haul, 31,500 cu.yd. one half mi. units additional haul, etc.; 9.17 mi. Bee Line Highway from Decatur to Hartselle, Morgan Co., 75,432 sq.yd. double surface bituminous treatment. W. S. Keller, state highway engr.

Louisiana—May 9, by State Hy. Comn., Maison Blanche, New Orleans, 27.1 mi. gravel sub surface on Alexandria-Columbia Highway, Grant Parish. J. M. Fourmy, state engr.

Tennessee—May 5, by State Hy. Dept., Nashville, 6.47 mi. road between Cannon Co. line and McMinnville, Warren Co. Former bids rejected. D. Q. McComb, Nashville, ch. engr. Noted April 6.

Tenn., Nashville—May 5, at office S. H. McKay, clk., paving Union, Jefferson, Monroe, Elm, Bass and South Sts., Oak St. from 4th to 6th Aves. and from 6th Ave. to Vine St., 5th, 3rd, Charlotte, and 10th Aves.; adv. this issue.

Kentucky—May 3, by State Hy. Dept., Louisville, improving 8.93 mi. Paris-Winchester Rd. from Paris to Clark Co. line, Project 50, Sect. A, Bourban Co., 83,825 sq.yd. cleaning surface, 20,000 gal. light oil or light tar, 20,000 gal. heavy oil or heavy tar, 1,250 ton pea gravel, stone chips or crushed gravel, including rolling, 5.59 mi. Cynthiana-Paris Rd. from Cynthiana to Sta. 295 plus 28, Project 21, Sect. F, Harrison Co., 46,000 sq.yd. cleaning surface, 10,-000 gal. light oil or light tar, 12,000 gal. heavy oil or medium tar, 390 ton pea gravel, stone chips or crushed gravel, to be rolled, 8.64 mi. Harrodsburg-Lawrenceburg Rd. from Harrodsburg to Sta. 264 plus 00, and Harrodsburg-Danville Rd. from Harrodsburg to Sta. 192 plus 34, Project 22, Sect. B, Mercer Co., 81,103 sq.yd. cleaning surface, 9,000 gal. light oil or light tar, 20,000 gal. medium oil or medium tar, 540 ton stone chips, pea gravel, or crushed gravel, 2 mi. Georgetown-Williamstown Rd. from Sta. 1013 to Sta. 808, Project 5, Sect. F, 18,774 sq.yd. cleaning surface, 6,500 gal. medium oil or medium tar, 180 ton pea gravel, stone chips or crushed gravel, 5.1 mi. Danville-Lexington Rd. from Danville to Sta. 269 plus 28, Project 25, Sect. C, Boyle Co., 41,866 sq.yd. cleaning surface, 10,000 gal. light oil or light tar, 10,000 gal. medium oil or medium tar, 400 ton pea gravel, stone chips or crushed gravel, 1 mi. Paris-Cynthiana Rd. from Paris to junction of Georgetown Rd., Project 21, Sect. G, Bourbon Co., 11,735 sq.yd. cleaning surface, 2,900 gal. light oil or light tar, 2,900 gal. heavy oil or medium tar, 340 ton pea gravel, stone chips or crushed gravel including rolling, 4.17 mi. Ashland-Cannonsburg Rd. from Sta. 0 to Sta. 221 plus 05, Project 47, Sect. P, Boyd Co., 39,-143 sq.yd. cleaning surface, 10,000 gal. medium tar, 250 ton pea gravel, stone chips or crushed gravel, 3.1 mi. Mt. Sterling-Frenchburg, Rd. from Mt. Sterling to Sta. 163 plus 68, Project 32, Sect. B, Montgomery Co., 25,460 sq.yd. cleaning surface, 7,000 gal. medium oil or medium tar, 200 ton stone chips, pea gravel or crushed gravel, 4 mi. Bardstown Bloomfield Rd. from Bardstown to Sta. 211 plus 00 on Stoner Pike, Project 18, Sect. E, Nelson Co., 32,850 sq.yd. cleaning surface, 8,000 gal. heavy oil or medium tar, 8,000 gal. light oil or light tar, 500 ton pea gravel, stone chips or crushed gravel, to be rolled, 4.55 mi. Bloomfield-Lawrenceburg Rd. from Sta. 7 plus 12 to Sta. 247 plus 68, Project 44, Sect. C, Nelson Co., 37,369 sq.yd. cleaning, 9,000 gal. light oil or light tar, 9,000 gal. medium oil or medium tar, 370 ton stone chips, pea gravel or crushed gravel, 6.67 mi. Munfordsville-Elizabethtown Rd. from Munfordsville to Bonnieville, Project 11, Sect. H, Hart Co., 54,780 sq.yd. cleaning surface, 18,000 gal. medium tar or medium oil, 550 ton stone chips, pea gravel or crushed gravel, 7.23 mi. Mt. Vernon-London Rd. from Mt. Vernon south to Sta. 382, Project 5, Sect. M, Rockcastle Co., 50,594 sq.yd. cleaning surface, 16,000 gal. medium tar or medium oil, 450 ton pea gravel, stone chips or crushed gravel; shaping and grading 9.3 mi. Louisville-Paducah Rd. from west corporate limits of Brandenburg to Breckenridge Co. line, Project 0, Sect. B, Meade Co., 47,437 cu.yd. earth, 1,033 cu.yd. borrow and 11,851 cu.yd. solid rock excav., 310 cu.yd. concrete, 9 acres clearing, 8,807 lb. reinforcing, etc., 0.2 mi. Williamsburg-Corbin Rd., Project 35, Sect. A and B, Whitley Co., 6,219 cu.yd. earth and 3,456 cu.yd. solid rock excav., 482 cu.yd. concrete, 52,942 lb. reinforcing; shaping and surfacing with rock asphalt, bituminous concrete, topeka mix or rein.-con., 4.5 mi. Mt. Sterling-Winchester Rd. from Clark Co. line to west corporate limits of Mt. Sterling, Project 47, Sect. A, Montgomery Co., 19,-981 cu.yd. excav., 396 cu.yd. concrete, 27,-244 lb. reinforcing, 22,437 sq.yd. scarifying and reshaping, 3,926 ton rock asphalt, 22,-815 ton crushed limestone, 3,926 ton bituminous concrete surface, 46,941 sq.yd. rein.-con. surface, 2,938 ton crushed limestone shoulders or 46,941 lin.ft. integral curb, etc.; shaping and surfacing with rock asphalt, bituminous macadam penetration type or waterbound macadam surface, 5.5 mi. London-Mt. Vernon Rd. from Rockcastle River to beginning Federal Aid Project 29 B, State Project 5, Sect. B, Laurel Co., 20,555 cu.yd. earth and 2,401 cu.yd. solid rock excav., rock asphalt includes 4,332 ton rock asphalt, 10,967 ton crushed limestone, 17,545 ton crushed limestone or 20,037 cu.yd. crushed sandstone base; bituminous macadam penetration type includes 10,155 ton crushed limestone, 117,-000 gal. bituminous material, 1,950 ton stone chips, 17,545 ton crushed limestone or 20,037 cu.yd. crushed sandstone base; waterbound macadam surface treated includes 9,750 ton crushed limestone, 648 ton stone chips, 17,334 gal. cold oil or medium tar special, 10,400 gal. prime coat, 17,545 ton crushed limestone or 20,027 cu.yd. crushed sandstone base. J. S. Boggs, state highway engr.

Ohio—May 9, by Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in following counties:

Darke Co., Sect. "Arcanum" Dayton-Greenville Rd., 0.409 mi., brick, $23,042; state to furnish brick, $18,234.

Darke Co., Sect. "Gettysburg" Greenville-Covington Rd., 0.457 mi., brick, $16,346; state to furnish brick, $11,426.

Defiance Co., Sect. "A" Defiance-Holgate Rd., 3.581 mi., rein.-con., $102,584; Kentucky rock asphalt, $99,146; bituminous macadam asphalt or tar, $86,736.

Streets and Roads (Continued)

Defiance Co., Sect. "A" Payne-Hicksville Rd., 2.024 mi., rein.-con., $59,907; Kentucky rock asphalt, $58,634; bituminous macadam asphalt or tar, $51,687.

Mahoning Co., Sect. "C" Youngstown-East Liverpool Rd., 3.33 mi., plain concrete, $103,310; bituminous macadam asphalt or tar, $93,103.

Mercer Co., Sect. "Celina" Celina-Greenville Rd., 0.318 mi., brick, $16,517; state to furnish brick, $11,374; rein.-con., $12,654.

Mercer Co., Sect. "E" and "F" Celina-Wabash Rd., 6.005 mi., bituminous macadam, asphalt or tar, $147,012; rein.-con., $197,925; brick, $223,334; state to furnish brick, $166,437.

Marion Co., Sect. "A" Marion-Bucyrus Rd., 2.953 mi., bituminous macadam, $58,591; brick, $89,471; state to furnish brick, $61,890.

Marion Co., Sect. "B" Marion-Bucyrus Rd., 3.747 mi., bituminous macadam, $98,945; brick, $132,916; state to furnish brick, $97,627.

Richland Co., Sect. "Lexington" Mansfield-Mt. Gilead Rd., 0.588 mi., rein.-con., $31,706.

Shelby Co., Sect. "Anna" Sidney-Wapakoneta Rd., 0.516 mi., rein.-con., $28,865.

Shelby Co., Sect. "Anna" Sidney-Wapakoneta Rd., 0.319 mi., waterbound macadam, tar treated surface, $4,878.

Shelby Co., Sect. "Botkins" Sidney-Wapakoneta Rd., 0.391 mi., waterbound 788.

Shelby Co., Sect. "Botkins" Sidney-Wapakoneta Rd., 0.391 mi., waterbound macadam, tar treated surface, $5,722.

Shelby Co., Sect. "A-1" Versailles-Sidley Rd., 2.039 mi., brick, $62,720; state to furnish brick, $44,429; rein.-con., $59,717; Kentucky rock asphalt, $57,729.

Shelby Co., Sect. "A-1" Sidney-Bellefontaine Rd., 2.273 mi., brick, $99,732; state to furnish brick, $80,018; rein.-con., $91,709.

Darke Co., Sect. "Versailles" Versailles-Western Rd., 0.588 mi., brick, $33,244; state to furnish brick, $26,939.

Crawford Co., Sect. "K" Columbus-Sandusky Rd., 2.034 mi., widening road two feet or addition to contract now being carried out, brick, $7,450; state to furnish brick, $6,258. L. C. Herrick, dir. highways.

O., Continental—May 5 (change of date) paving Main St. from Forest to Park Sts., Rice Rd. from 3rd St. to tracks of Toledo, St. Lawrence & Western R.R., Oak St., from Main to 6th Sts., 6th St. from tracks of New York, Chicago & St. Lawrence R.R. to Ash St., Maple St. from 5th to 7th Sta., 5th St. from Maple St. to Benton Rd., Sugar St. from 4th to Main ts., 11,175 cu.yd. grading, 1,325 lin.ft. 10-12 in. sewer pipe, 13,015 lin. ft. straight, 843 lin.ft. circular and 230 lin. ft. marginal curb, 18,417 sq.yd. pavement. G. Champe, 610 Nasby Bldg., Toledo, engr. Noted April 20.

O., East Cleveland (Cleveland P. O.)—May 4, laying stone or concrete sidewalks. $25,000. M. Garnett, City Hall, engr.

O., Xenia—May 1, by T. H. Zell, city auditor, paving North West, South West, Union, Pleasant, High, Hivling and Lehman Sts., 12,705 sq.yd. asphalt, wood block or brick block. $50,000. W. F. Foster, 701 Commercial Bldg., Dayton, engr.

O., Xenia—May 1, by Comrs. Greene Co. paving Church St. from Detroit to Columbus Sts., 5,400 sq.yd. asphalt or brick on concrete. $25,000. W. F. Foster, 701 Commercial Bldg., Dayton, engr. Noted March 2.

Ind., Ft. Wayne—May 2, by Comrs. Allen Co., grading and concrete paving 20 mi. Lima Rd., 18 ft. $600,000.

Ind., Ft. Wayne—May 4, by Comrs. Allen Co., grading and stone surfacing 15,838 ft. Smith Rd., 22 ft. $50,405.

Ind., Goshen—May, 1, by Comrs. Elkhart Co., grading and gravel surfacing 10,544 ft. H. Rd., 18 ft., $25,000; 15,942 ft. C. Rd., 18 ft., $31,286; 22,981 ft. County Unit Rd. 29, 14 ft., $39,150; grading and concrete paving 15,960 ft. County Unit Rd. 33, 16 ft., $74,000; 17,530 ft. County Unit Rd. 17, 18 ft., $85,595.

Ind., Kendallville—May 9, 23,000 sq.yd. paving, various types. C. D. Traxler, city engr.; adv. this issue.

Ind., Lawrenceburg—May 1, by Auditor Dearborn Co., grading and surfacing 20,252 ft. Perry Bailey Rd., 16 ft., broken stone. $25,246.

Ind., Princeton—May 3, Auditor Gibson Co., grading and surfacing 15,212 ft. Adam Keil Rd., 16 ft., stone or gravel, $26,500; 14,706 ft. McElhinney Rd., 16 ft., $26,000.

Ind., Versailles—May 1, by Comrs. Ripley Co., grading and paving 8,019 ft. Kroenke Rd., macadam, $52,000; 7,500 ft. Jarvis Rd., macadam, $49,000; 15,400 ft. Kastens Rd., macadam and concrete, $65,000; 6,266 ft. Behlmer Rd., concrete, $27,000; all 16 ft.

Ind., Winamac—May 3, by Comrs. Pulaski Co., grading and gravel surfacing 45,110 ft. Gilsinger Rd., 16 ft. $60,000.

Michigan—May 2, by State Hy. Dept., Lansing, grading 14.065 mi. State Trunk Line Rd. 25-8, Sects. A, B and C, Schoolcraft Co., 86,506 cu.yd. excav. F. F. Rodgers, state engr.

Michigan—May 4, by State Hy. Dept., Lansing, 3.957 mi. State Trunk Line Rd. 18-2, Sect. A, Crawford Co., 13,933 cu.yd. excav., 37,144 sq.yd. gravel. F. F. Rodgers, state engr.

Michigan—May 4, by State Hy. Dept., Lansing, grading and surfacing 11.17 mi. State Trunk Line Rd. 15-16, Sects. A and C. Marquette Co., 74,262 cu.yd. excav. 98,061 sq.yd. bituminous concrete. F. F. Rodgers, state engr. Noted April 20.

Michigan—May 4, by State Hy. Dept., Lansing, grading and surfacing Federal Aid Project 39, Sect. B, Clinton Co., 6,509 cu.yd. excav., 21,291 sq.yd. asphalt, concrete or bituminous concrete. F. F. Rodgers, state engr. Noted March 23.

Michigan—May 10, by State Hy. Dept., Lansing, grading and surfacing State Trunk Line Rd. 86-1, Mecosta Co., 55,204 cu.yd. excav., 56,158 sq.yd. gravel. F. F. Rodgers, state engr.

Michigan—May 11, by State Hy. Dept., Lansing, grading and surfacing 2.932 mi. State Trunk Line Rd. 14-26, Jackson Co., 14,593 cu.yd. excav., 27,525 sq.yd. gravel; 2.332 mi. State Trunk Line Rd. 21-17, Lapeer Co., 8,409 cu.yd. excav., 24,624 sq. yd. asphalt, concrete or bituminous concrete. F. F. Rodgers, state engr.

Mich., Grand Rapids—May 2, by Kent Co. Rd. Comn., grading and surfacing 1.003 mi. Assessment Dist. Rd. 41, 3,400 cu.yd. excav., 10,560 sq.yd. concrete.

Wisconsin—May 1, by Wisconsin Hy. Com., at div. office 2, Milwaukee, concrete surfacing, etc., 5.7 mi. Center Rd., State Trunk Highway 75, Federal Aid Project 286, Milwaukee Co., 60,525 sq.yd. 18 ft. concrete surfacing, 49,952 cu.yd. earth excav., 548.8 cu.yd. Class A concrete on bridges and culverts, etc.; 3.15 mi. Milwaukee-Waukesha Rd., State Trunk Highway 19, Federal Aid Project 300, Waukesha Co., 36,918 sq.yd. 20 ft. concrete surfacing, 14,056 cu.yd. earth excav., 515.7 cu.yd. Class A concrete on bridges and culverts etc. Wisconsin Highway Com., 44 Milwaukee St., Milwaukee, engrs.

Wisconsin—May 2, by Wisconsin Hy. Com.. div. office 9, Teller Bldg., Lancaster, 3.11 mi. Prairie du Chien-Fennimore Rd., Federal Aid Project 299, Grant Co., 12,581 cu.yd. earth, 950 cu.yd. loose and 275 cu. yd. solid rock excav., 523 cu.yd. borrow, alternate bids on 5,529 cu.yd. gravel, mine tailings or crushed stône; 5.75 mi. Lancaster-Prairie du Chien Rd., Federal Aid Project 298, Grant Co., 4.48 acres clearing, 3.32 acres grubbing, 1,228 cu.yd. loose and 2,538 cu.yd. solid rock excav., alternate bids on surfacing 9,635 cu.yd. gravel or crushed stone, etc., 557.5 cu.yd. concrete and 29,390 cu.yd. structural steel for bridges.

Wisconsin—May 4, by Wisconsin Hy. Com., div. office 3, Nicolet Bldg., Green Bay, 5.67 mi. Oconto-Abrams Rd., Project 271, Oconto Co., 4.17 acres clearing, 18,512 cu.yd. unclassified excav., 847 cu.yd. borrow, 900 cu.yd. ditching, 13,041 cu.yd. gravel surfacing; 3.31 mi. Pulcifer-Gillett Rd., Federal Aid Project 272, Oconto Co., 2.79 acres clearing, 22,154 cu.yd. unclassified excav., 460 cu.yd. borrow, 7,655 cu.yd. gravel surfacing.

Wis., Madison—May 4, by Dane Co. State Road and Bridge Com., grading and surfacing 9,700 ft. Madison-Leeds Rd., Town of Burke, 2,169 cu.yd. excav., 2,400 cu. yd. gravel surfacing; 2.14 mi. Token Creek-Sun Prairie Rd., Burke and Sun Prairie, 6,292 cu.yd. unclassified excav., 2,600 cu.yd. gravel surfacing; 1,847 ft. Main St., Waunakee, 2,262 sq.yd. macadam surfacing, 5,145 sq. yd. concrete surfacing, 5,145 lb. reinforcement in pavement, separate bids on 2,776 lin. ft. curb and gutter; 3 mi. Madison-Sun Prairie Rd., 6,148 cu. yd. unclassified excav., 809 cu. yd. borrow, 6,013 cu.yd. gravel surfacing. E. J. Smith, comr.

Wis., Port Washington — May 3, by Ozaukee Co. Road and Bridge Com., surfacing, etc., 3.6 mi. Lake Shore Rd. on Sate Trunk Highway 17 from end of present concrete, 38,600 sq.yd. concrete surfacing, 13,578 cu.yd. earth excav., 218 cu.yd. concrete in culverts, 48,500 lb. reinforcing, etc. Wisconsin Highway Comn., 444 Milwaukee St., Milwaukee, engrs.

Wis., Waukesha—May 2, by Waukesha Co. Road and Bridge Com., concrete surfacing 6.5 mi. Oconomowoc-Dousman Rd., on State Trunk Highway 67, 60,188 sq.yd. 16 ft. concrete surfacing, 21,289 cu. yd. earth excav.; 1 mi. Dousman Rd. from Dousman north to Junction, State Trunk Highway 41, 9,050 sq. yd. 16 ft. concrete surfacing, 3,500 cu.yd. earth excav.; 7.45 mi. Lisbon Plank Rd. from Milwaukee-Waukesha Co. line west to Junction, State Trunk Highway 92, 14,200 cu.yd. 16 ft. gravel surfacing, 15,400 cu. yd. earth excav. Wisconsin Highway Com., 444 Milwaukee St., Milwaukee, engrs.

Ia., Carroll—May 1, at office Auditor Carroll Co., grading 9.46 mi. Federal Aid Project 154, from here north to Sac Co. line, 75,649 cu.yd. excav., 28,990 ft. 6 in., 8,620 ft. 8 in. and 1,000 ft. 10 in. tile, etc.

Ia., Elkader—May 4, by Auditor Clayton Co., grading 14 mi. primary road from Strawberry Point northeast to Elkader, Federal Aid Project 156, 229,793 cu.yd. earth excav., 17,783 cu.yd. loose rock and 33,798 cu.yd. solid rock, 17,860 lin.ft. 6 in. tile, etc., $117,000; Garnaville-Guttenberg Rd., Primary Rd. Project 70, 110,725 cu.yd. earth excav., 20,209 cu.yd. loose rock and 30,776 cu.yd. solid rock excav., 7,780 lin.ft. 6 in. tile, etc., $86,000; Primary road from Elkader to McGregor, Garnaville branch, 36,632 cu.yd. earth excav., 3,216 cu.yd. loose rock and 37,867 cu.yd. solid rock excav., etc. $77,000. W. S. Cordiner, Clayton, engr.

Ia., New Hampton—May 1, Auditor Chickasaw Co., grading and gravel surfacing 12 mi. Primary Rd. east and west through Fredericksburg, Federal Aid Project 177, 113,304 cu.yd. excav., 118,000 lin. ft. 6-8 in. tile, 18,917 cu.yd. gravel surfacing, etc. W. R. Garland, New Hampton, engr.

Minn., Deer Wood—May 12, by Comrs. Crow Wing Co., grading and surfacing with crushed rock 6 mi. State Rd. 6 between here and Mille Lacs 42 ft. $100,000. J. W. Curo, Brainard, engr.

Minn., Fairmont—May 4, by Auditor Martin Co., gravel surfacing, etc., 23 mi. State Roads 4, 7, 9 and 11, Jobs 2205, 2206, 2207, 2208 and 2209; 515 cu.yd. rein.-con. for bridges and culverts. $45,000. C. N. Krosch, Fairmont, engr.

N. D., Napoleon—May 2, by C. Kaz, aud. Logan Co., 16 mi. State Highway east of here, incl. 8 acres clearing and grubbing, 115,484 cu.yd. excav., 11,645 sta.yd. overhaul, 3,280 lin.ft. 18-36 in. corrugated metal culvert, 27 cu.yd. Class A concrete, 1,928 lb. reinforcing steel, etc. $28,000.

Wyoming—May 2, by State Hy. Dept., Cheyenne, surfacing 9.8 mi. Federal Aid Project 82, 18 ft., Torrington, Goshen Co., 16,200 cu.yd. crushed gravel. $25,000. Z. E. Sevison, state highway engr.

Mont., Glendive—May 1, paving 1.5 mi. Merril Ave. from Bell to Clement St., Bell St. from Clough St. to Merril Ave., Benham St. from Merril Ave. on. Alternate bids on bitulithic concrete on 5 in. base, Class A and B portland cement 6-8 in., bitulithic on concrete. $50,400. A. Colin, clk. Noted March 23.

Missouri—May 4, by State Hy. Dept. at div. office Lancaster, 4.98 mi. road from Lancaster eastward and westward, State Aid Project 20.144, Schuyler Co., 25,873 cu. yd. earth excav., 8,827 cu.yd. borrow, 166.9 cu.yd. concrete masonry, etc. A. Graham, Jefferson City, state highway engr.

Tex., Fredericksburg—May 9, by A. H. Kneese, judge Gillespie Co., grading, gravel surfacing and ⅜ in. bituminous topping 2.04 mi. State Highway 20, Main St. through here, $27,500; surfacing 16.94 mi. State Highway 20-A, 34,935 cu.yd. gravel surfacing to be furnished by county, $40,000. A. F. Moursand, co. engr.

Tex., McKinney—May 9, by O. T. Murray, judge Collin Co., surfacing 24.9 mi. State Highway 6 on Federal Aid Project 98, ⅜ in. bituminous topping, 29,199 cu.yd. macadam stone chats, 115,615 gal. bituminous binder. $55,000. F. W. Cawthon, co. engr.

Col., Denver—May 10, by Dept. Impvt. and Parks, paving 34 blocks Alley Paving Dists. 76, 77 and 80, 6 in. concrete. $58,485. J. B. Hunter, City Hall, engr.

Nevada—May 3, by State Hy. Dept., Carson City, grading and gravel surfacing 19.83 mi. State Highway, Route 1, Sect. B, from Elko to Halleck, 15 ft., Elko Co., 81,000 cu.yd. excav., 486 cu.yd. Class A and 132 cu.yd. Class B concrete, 19.83 mi. prepare subgrade and shoulders, 31,730 cu.yd. loading gravel, 71,400 yd. mi. hauling gravel, and 31,730 cu.yd. spreading gravel, etc. G. W. Borden, state highway engr. Noted Nov. 10.

Cal., Fresno—May 4, grading, curbing, guttering and paving Lucerne Lane between Olive and Florodora Aves.; Montecito Ave.

Streets and **Roads (Continued)**

between Hazelwood and 4th Sts. W. Stranahan, city **engr. Noted April 6 and 20.**

Cal., Fresno—May 5, by Fresno Co. paving 5 mi. Shaw Ave., 6,820 cu.yd. earthwork without **classification, 421,185** sq.ft. 3½ in. asphaltic concrete base and 1½ in. surface, etc. **$100,000. C. P. Jensen, co.** engr.

Cal., Oroville—May 3, by Bd. Supervs. Butte Co. paving 3.4 mi. Biggs Princeton Rd., Route 6, Sect. A, 4,000 cu.yd. unclassified grading, 269,000 sq.ft. 1½ in. asphaltic concrete on 2½ in. or 3½ in. base course; 2.99 mi. Riceton Rd., 5,187 cu.yd. unclassified grading, 6,420 ton broken stone surfacing and 206 ton Grade E asphaltic oil; 6.07 mi. Route 10, Sects. A and B, Nelson Blavo-Butte Creek Rd., 7,488 cu.yd. unclassified grading, 11,029 ton broken stone surfacing, 418 ton Grade E asphaltic oil H. H. Hume, Oroville, engr.

Ontario—May 11, by W. A. McLean, deputy minister of highways, Parliament Bldgs., Toronto, concrete pavements in 4 mi. Yonge St. from Mausoleum northerly, Contr. 601, alternative bids on asphaltic concrete, 2 mi. Bloor St. from Kingsway intersection westerly to Dundas St., Contr. 602, alternative bids on asphaltic concrete, 1½ mi. from St. Catherines easterly to Homer, Contr. 598; asphaltic concrete pavements on 2½ mi. from Ottawa southerly, Contr. 593, 1½ mi. from Grimsby easterly to Park Rd., Contr. 594, 3 mi. from Peters Corners towards Rockton, Contr. 595, 3 mi. from Dunbarton westerly, Contr. 612, 4 mi. 5 in. loose black base consolidated, and with seal coat on Carling Ave. from Ottawa westerly, Contr. 636, alternative bid on top course macadam 5 in. loose compacted; bituminous penetration pavements on road from ½ mi. west of Grimsby, westerly ½ mi., Contr. 596, 1.4 mi. Yonge St. from Toronto northerly, Contr. 618, 3 mi. from Clappisons Corners to Blacks Corners, Contr. 619; macadam road, 4 mi. from Hamilton point, 9½ mi. east of Kingston, easterly, Contr. 567; macadam base course 3½ mi. from Owen Sound southerly, Contr. 555, 3 mi. Caledonia Rd. from Rychmans Corners southerly, Contr. 556, 4 mi. from Picton to Bloomfield, Contr. 558, 7 mi. from Morrisburg easterly, Contr. 565, ½ mi. from Cardinal easterly, Contr. 566, 4 mi. from Kingston northeasterly, Contr. 621, 5 mi. from Cooksville towards Brampton, Contr. 625, 5½ mi. from Woodstock easterly, Contr. 631, 3 mi. from Orillia northerly, Contr. 633, 6 mi. Yonge St. from Holland Landing northerly, Contr. 634, 1 mi. from Deseronto westerly, Contr. 637, 4½ mi. from point 12 mi. east of Gananoque easterly, Contr. 638, 5 mi. from point 8 mi. east of Cornwall easterly, Contr. 639; surface treatment of macadam road, 4 mi. from Hamilton southerly, Contr. 569; concrete culverts, abutments and bridge floors, in following townships: Bayham and Middleton, Contr. 490, Westmeath Contr. 516, East Gwillimbury Contr. 542, Guelph Contr. 543, Waterdown Bridge Contr. 544, North Elmsley Twp. Bridges, Contr. 545, Hope, Port Hope, Whitby, West Whitby and East Whitby, Contr. 546, Lancaster Twp. Bridges Contr. 547, Erindale Bridge over Credit River on Dundas St., Contr. 548; grading in townships of Etobicoke, Contr. 554, Reach and Brock Contr. 557, Tyendinaga Contr. 559, Longueuil Contr. 560, Cumberland Contr. 561, Charlottenburg Contr. 562, Brantford Contr. 563, North Elmsley Contr. 564, Toronto and Trafalgar Contr. 641, North Orillia Contr. 695, West Oxford Contr. 696, Glanford Contr. 697, Seneca Contr. 698, Sandwich South and Maidstone, Contr. 699, Sydney Contr. 723. **$2,000,000. G. Hogarth,** ch. engr.

Ont., Newmarket—May 10, by P. J. Anderson, town clk., paving 12,000 sq.yd. various streets, asphalt, bitulithic, macadam or concrete. $50,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

BIDS RECEIVED

N. Y., Auburn—J. P. Jaeckel, city mgr., opened bids April 18, improving Grant Ave., Hoffman and North Division Sts., rein.-con., from E. W. Foley Contg. Corp., 1 East Main St., Waterloo, $60,014; North Park and Hamilton Sts., bitulithic and asphalt, from Broyer Bros., Auburn, $27,680. Noted April 6.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, opened bids April 19, fencing lots on (1) south side of Atlantic Ave., grading, curbing, laying sidewalks and paving (2) Bay 22nd St., grading, curbing and flagging (3) Creamer St., (4) East 9th St., (5) Louisa St., grading, curbing and laying sidewalks on (6) West 10th St., from F. L. Sweeney, 665 Jefferson Ave., (1) $695; J. J. Nealis, (1) $712; O. White, (1) $763; Brooklyn Alcatraz Asphalt Paving Co., 407 Hamilton Ave., (2) $4,760; Cranford Co., 52 9th St., (2) $4,892; Borough Asphalt Co., 1301 Metropolitan Ave., (2) $5,302; W. E. Kelly, 703 Vanderbilt Ave., (3) $2,443; F. J. Gallagher, 490 Park Pl., (3) $2,443; T. B. Scott, 671 Halsey St., (3) $2,483, (5) $3,228, (6) $3,473; C. Gallagher, 745 Dean St., (4) $1,955; G. M. Mandatto, 129 29th St., (4) $2,029, (5) $3,454, (6) $3,341; Frawley-Kaufman Contg. Co., 2 Rector St., New York, (4) $2,086, (6) $2,870; Grimm Constr. Co., 170 McKinley St., (5) $3,381. Noted April 13.

N. Y., Buffalo—Erie Co. opened bids April 18, paving 4 mi. Lackawanna-Abbott Highway, macadam, from Peoples Paving Co., 85 Roma Ave., $58,440; Meyer & Meyer Corp., Lancaster, $61,900; F. J. Mumm, 176 Best St., $68,900.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., opened bids April 19, repaving (1) 7th Ave., (2) West Bway., (3) West Houston St., (4) 16th St., (5) East 69th St., (6) Madison Ave., building sidewalks on (7) ends of park strips on Park Ave., etc., from J. Meehan & Son, 74 Cortlandt St., (1) $141,283, (2) $38,371, (3) $41,144; Asphalt Constr. Co., 208 Bway., (1) $144,443, (5) $16,197, (6) $30,570; Regan-Towers Co., 124 West 121st St., (1) $144,486, (2) $38,386; O'Rourke Contg. Co., 1476 Bway., (2) $37,509, (3) $43,651; W. J. Fitzgerald, 547 West 45th St., (3) $41,950, (4) $10,156; D. J. McCarthy, 88 Audubon Ave., (3) $43,351; Cleveland Trinidad Paving Co., Flushing, (4) $10,864; Uvalde Asphalt Paving Co., 1 Bway., (4) $11,110; J. E. Gaffney Co., 50 East 42nd St., (5) $16,099, (6) $30,500; Interboro Asphalt Co., 233 Bway., (5) $16,795, (6) $30,905; P. T. Cox Contg. Co., 154 Nassau St., (7) $14,113; Arco Constr. Co., 31 Nassau St., (7) $14,443; Burnside Contg. Co., 270 Burnside Ave., (7) $15,440. Noted April 13.

N. J., Camden—Bd. Freeholders Camden Co., opened bids April 10, reconstructing (1) State Highway Route 3, Sect. 8, White Horse Pike, Camden to Clements Bridge Rd., (2) State Highway Route 3, Sect. 9 White Horse Pike, Clements Bridge Rd. to Kirkwood, (3) State Highway Route 3, Sect. 10, White Horse Pike, Kirkwood to Berlin, from W. P. Corson, 1141 Sycamore St., (1) $269,645; J. M. Kelly Co., 10th and Pearl Sts., (1) $272,822, (2) 90.45% of engineers estimate ($221,772), (3) 91.89% of engineers estimate (324,294); Fish Rutherford Co., Real Estate Trust Bldg., Phila., (1) $311,101; Ross & Whelan, Broad St. Bank Bldg., Trenton, (2) 94%; R. Sangiovanni, 78 Hoyt St., Newark, (2) 96.2%; Heymon & Goodman Co., 15 Exch. Pl., Jersey City, (3) 92%; Mallory & Fitzpatrick, Long Island City, (3) 93.75%.

N. J., Morristown—Morris Co., Court House, opened bids April 14, paving Sect. 5 State Highway Route 5, Madison Ave., bituminous concrete on concrete, from Northern Constr. Co., Newark, 88.9% engineers estimate ($132,558); C. S. Edwards, 1 Montgomery St., Jersey City, 89%. Noted March 30.

N. J., Somerville—Somerset Co. opened bids April 18, paving Route 9, Sect. 5, Union Ave. through Bound Brook, sheet asphalt on rein.-con., from Utility Constr. Co., 5 Spring St., New Brunswick, 97.38% engineers estimate (95,595); J. F. Burke, 309 Park Ave., Plainfield, 97.6%; H. V. Oliver, 21 Liberty St., New Brunswick, 98.9%. Noted March 30.

Pennsylvania—State Hy. Dept. Harrisburg, opened bids April 18, (1) 30,191 ft. Route 69, Armstrong Co., (2) 10,560 ft. Route 67, Armstrong Co., (3) 17,120 ft. Route 57, Blair Co., (4) 21,454 ft. Route 276, Cambria Co., (5) 21,294 ft. Route 147, Chester Co., (6) 15,335 ft. Route 214, Clarion Co., (7) 4,187 ft. Application 1729, Clearfield Co., (8) 6,186 ft. Route 234, Woodward Twp., Clearfield Co., (9) 4,092 ft. Route 234, Houtzdale Boro, Clearfield Co., (10) 3,706 ft. Application 1725, Clearfield Co., (11) 28,289 ft. Route 84, Crawford Co., (12) 43,691 ft. Route 207, Crawford Co., (13) 31,562 ft. Route 89, Crawford and Venango Counties, (14) 7,977 ft. Route 295, Erie Co., (15) 1,022 ft. Application 1641, Erie Co., (16) 21,059 ft. Route 68, Indiana Co., (17) 30,342 ft. Route 60, Jefferson Co., (18) 8,648 ft. Route 322, Application 1632, Lackawanna Co., (19) 33,327 ft. Route 315, Application 1774, Lawrence Co., (20) 31,669 ft. Route 208, Application 1758, Mercer Co., (21) 7,528 ft. Route 238, Application 1754, Mercer Co., (22) 2,190 ft. Route 208, Application 1752, Mercer Co., (23) 7,827 ft. Route 100, Application 1525, McKean Co., (24) 64,056 ft. Routes 194, 195 and 229, Snyder and Juniata Counties, (25) 9,374 ft. Route 90, Application 1828, Venango Co., (26) 34,747 ft. Route 218, Application 1829, Venango Co., (27) 28,360 ft. Route 91, Application 1826, Venango Co., (28) 17,452 ft. Route 207, Venango Co., (29) 19,156 ft. Route 279, Application 1811, Warren Co., (30) 1,015 ft. Application 1846, Warren Co., (31) 8,078 ft. Routes 216 and 333, Red Lion Boro., York Co., (32) 13,911 ft. Route 333, York, Windsor and North Ropewell Twps., York Co., (33) 18,545 ft. Route 250, York Co., (34) 25,883 ft. Route 230, York Co., (35) one rein.-con. viaduct 524 ft. long, also reconstructing 1,129 lin.ft. bituminous macadam surface course on either broken stone or Telford stone base course, which will be approaches to viaduct on Route 225, Delaware Co., from:

C. Winters Constr. Co., Renfrew, (1) $270,132.

State Constr. Co., 2nd Ave. and 5th St., New Kensington, (1) $272,583.

F. S. Wilson, Kittanning, (1) $294,061, (2) $114,614.

Jones Constr. Co., Salem, O., (2) $111,783, (19) $255,304.

J. Hermann, 1305 Jefferson St., Latrobe, (2) $115,817, (3) $132,788.

Dowler & Anderson, Clearfield, (3) $135,862.

Standard Contg. Co., 1003 18th Ave., Altoona, (3) $137,785.

M. O'Herron Co., 1st and McKean Sts., Pittsburgh, (4) $153,124.

Torquato Bros. Co., 1317 Midway Ave., Windber, (4) $155,944.

W. C. Guncheon & Co., Smethport, (4) $157,482, (16) $177,048.

Mallery & Fitzpatrick, 244 Jackson Ave., Long Island City, N. Y., (5) $207,775.

Heyman & Goodman Co., 15 Exch. Pl., Jersey City, N. J., (5) $210,185, (31) $131,029.

W. C. Evans, Ambler, (5) $221,211.

R. V. Baldwin, 1364 4th Ave., Coraopolis, (6) $121,291.

Rinehart Bros., East Liverpool, O., (6) $123,423, (17) $280,372.

M. J. Scanlon, 16 Cherry St., New Castle, (6) $123,874.

Burnside Constr. Co. Inc., Burnside, (7) $33,362.

R. J. DeLong, 129 West 4th St., Williamsport, (7) $35,447, (8) $53,083, (9) $38,500, (10) $30,862.

A. E. LaRoche, Hamburg, (7) $35,808.

L. A. Brua, Jr., Hollidaysburg, (8) $53,824, (9) $39,650.

Gifford & Pritchard, Philipsburg, (8) $55,691, (9) $40,731.

Warren Bros., 9 Cambridge St., Boston, Mass., (10) $30,070, (17) $274,610, (31) $128,053.

Avery & Bailey, Philipsburg, (10) $30,427.

H. E. Bunce, 125 Fulton St., Olean, N. Y., (11) $229,298.

Chester General Contg. Co., P. O. Box 781, East Liverpool, O., (11) $231,404, (24) $585,767.

F. L. Cohen Inc., Prudential Bldg., Buffalo, N. Y., (11) $233,868, (12) $347,294.

R. D. Baker Co., 1454 Penobscot Bldg., Detroit, Mich., (12) $318,619.

H. E. Culbertson, 1058 Hanna Bldg., Cleveland, O., (12) $346,100.

C. H. Fry Constr. Co., 609 West 19th St., Erie, (13) $272,426, (14) $49,759, (15) $6,884, (25) $81,708, (26) $332,101, (29) $147,439.

H. W. Horst Co., Horst Bldg., Rock Island, Ill., (13) $282,605, (17) $269,391.

F. D. Ross, 74 High St., Bradford, (13) $283,977, (23) $67,108.

Pasqualicchio & Marasco, 13th and Sassafras Sts., Erie, (14) $53,193, (15) $8,396.

Penn Erie Constr. Co., Erie, (14) $54,236, (15) $8,397.

J. C. Mickey, 1601 Ligonier St., Latroke, (16) $183,003.

M. Bennet & Sons, Indiana, (16) $183,254.

M. Rosato & Son Co. Inc., 1145 Sloan Ave., Scranton, (18) $78,903.

M. Stipp & Son, 1015 North Main Ave., Scranton, (18) $103,761.

H. B. Sproul Constr. Co., Inc., 218 Adams Ave., Scranton, (18) $88,080.

C. B. Burns & I. R. Burt, Ellwood City, (19) $251,938.

Garvey-Weyenberg Constr. Co., 807 College Ave., Appleton, Wis., (19) $257,237, (20) $231,252.

Strange & Payne, 306 West Market St., Mercer, (20) $230,413.

Stoneboro Constr. Co., Stoneboro, (20) $232,114.

J. C. Devine Co., Alliance, O., (21) $63,147, (22) $30,382, (28) $159,153.

McDermott & Hannon, Niles, O., (21) $65,608.

W. S. Morrison, New Brighton, (21) $65,894.

Jamieson & Narlee, Fredonia, (22) $29,814.

Axe & McFall, New Wilmington, (22) $29,954.

D. L. Dennis, Eldred, (23) $63,026.

Baldwin & Welcomer, Meadville, (23) $65,743.

Piel Constr. Co., 2546 Edmondson Ave., Baltimore, Md., (24) $555,886, (33) $172,234.

Streets and Roads (Continued)

Ambler-Davis Co., Harrison Bldg., Phila., (24) $602,120.

Seiple Wolf Constr. Co., 707 Wick Bldg., Youngstown, O., (25) $80,465.

W. W. Wilt, 710 13th St., Franklin, (25) $83,678.

L. H. Young Contg. Co. and Russel Bros., es Austintown, O., (26) $309,424.

J. I. Dick, Scottdale, (26) $325,703.

G. S. White Co., Jenkins Arcade, Pittsburgh, (27) $212,146.

Dunn & Ryan Contg. Co. Inc., 910 Keystone Bldg., Pittsburgh, (27) $212,835.

H. P. Streicher Co. Inc., 319 Terminal Bldg., Toledo, O., (27) $217,802.

W. R. Jeffreys & Co., Wilson Ave., Beaver, (28) $153,100.

S. Gamble Co., Class St., Carnegie, (28) $148,477.

F. W. Knickenberg, 702 Michigan Ave., Buffalo, N. Y., (29) $141,001.

C. E. Walter & Co., Clarion, (29) $158,341.

Sheffield Concrete Co., Sheffield, (30) $14,335.

Savage & Annundson, 5 Oak St., Warren, (30) $17,768.

Bethlehem Eng. & Contg. Co., 307 Wilbur Trust Co. Bldg., Bethlehem, (31) $128,364, (32) $88,474, (33) $169,255, (34) $173,067.

Sutton Contg. Co. Inc., 1207 Vine St., Phila., (32) $89,249.

Comerford Constr. Co., 125 South 5th St., Phila., (32) $93,634.

McInerney & McNeal Inc., 702 Northampton Natl. Bank Bldg., Easton, (33) $152,063.

Eng. Constr. Corp., 720 Commercial Trust Bldg., Phila., (34) $182,693.

Souder Constr. Co., 349 Woolworth Bldg., Lancaster, (34) $176,201.

J. E. Brenneman Co., 1519 North Amer. Bldg., Phila., (35) $86,979.

F. J. Boas, 201 North Broad St., Phila., (35) $101,487.

Ward & Tully Inc., 189 Montague St., Brooklyn, N. Y., (35) $109,682.

Pa., Ebensburg — Supervisors Croyle Twp. opened bids April 17, paving (1) 1 mi. Summerhill-Jackson Rd., (2) 2 mi. Franklin-Lambs Bridge Rd., (3) 2 mi. Lovett-Knepper Mill Rd., from Cambria Constr. Co., Ebensburg, (1) $51,818; L. R. Mathieu & Sons, 712 4th St., Altoona, (1) $52,910, (3) $106,524; Penn Constr. Co., Connellsville, (1) $61,648, (2) $73,542; J. L. Elder, Ebensburg, (2) $74,989; M. O'Herron Co., 1st and McKean Sts., Pittsburgh, (2) $75,636; E. A. James, Johnstown, (3) $100,241; Shoemaker & Lingle, Ebensburg, (3) $105,995; also 1,700,000 No. 1 repressed vitr. paving brick from Patton Clay Mfg. Co., Patton, $32 per M; Globe Brick Co., Youngstown, O., $40 per M; Penna. Clay & Brick Co., Youngstown, O., $44.50 per M. Noted March 30.

Pa., Ebensburg—Supervisors Richland Twp. opened bids April 21, paving 1.52 mi. Solomon Rd., vitr. brick on concrete, from Cambria Constr. Co., 437 Kennedy Ave., Johnstown, $80,332; L. R. Mathieu & Sons, 714 4th St., Altoona, $81,779; M. O'Herron Co., 1st and McKean Sts., Pittsburgh, $81,924. Noted April 6.

Pa., Phila.—Opened bids April 21, paving (1) Delaware Ave., (2) York Rd., (3) Green Lane, (4) Front St., (5) A St., (6) Folsom St., (7) Hawthorne St., (8) Kip St., (9) Madison Ave., (10) Pechin St., (11) Pine St., (12) Pentridge St., (13) 72nd St., (14) 17th St., (15) 6th St., (16) B St., (17) Courtland St., (18) Mentor St., (19) Olney Ave., (20) 3rd St., (21) Magee St., (22) American St., (23) Edmund St., (24) Howard St., (25) Pittsville Ave., (26) Mermaid Lane, (27) Ridge Ave., (28) Cottage St., (29) Pentridge St., (30) Buist Ave., from J. Mehan & Sons, 915 West Dauphin St., (1) $32,693, (4) $25,873, (27) $1,987; T. L. Flannigan, 1204 Montgomery Ave., (1) $35,759, (3) $27,693, (22) $20,535, (23) $1,770, (24) $100, (25) $3,714, (26) $5,482; Fish-Rutherford Co., Real Estate Trust Bldg., (1) $35,999; Barber Asphalt Paving Co., Land Title Bldg., (2) $42,562, (5) $2,377, (6) $2,909, (7) $2,182, (8) $2,898, (9) $1,393, (10) $3,096, (11) $2,818, (12) $5,680, (13) $2,996, (14) $2,336, (15) $5,246; W. H. Yettman, Jr., Lincoln Bldg., (2) $44,754; Eastern Paving Co., Colonial Trust Bldg., (2) $45,688, (3) $25,673, (4) $23,872, (29) $2,563; United Paving Co., Land Title Bldg., (3) $28,644; M. J. McCrudden, Real Estate Trust Bldg., (4) $25,642; Mack Paving Co., Nicetown Lane, (16) $6,373, (17) $8,012, (18) $5,185, (19) $6,933, (20) $6,336, (21) $2,109; A. J. Anderson, Phila., (28) $5,381; R. B. Wenner, 3106 Midvale Ave., (30) $752. Noted April 13.

Ky., Princeton—Rd. Comrs. Caldwell Co., grading and macadam surfacing 5 mi. Princeton-Cadiz Rd., from Corum Bros., Madisonville, $30,690; McQuary Bros., Cerulean, $31,342; J. S. Walton & Co., Princeton, $31,720.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads with (a) asphaltic macadam, oil, (b) asphaltic macadam, lake, (c) tar macadam, (d) rein.-con., (e) brick, (f) state to furnish brick, (g) bituminous concrete, oil, (h) bituminous concrete, lake, in following counties: Allen Co., Sect. "K" Lima-Sandusky Rd., 3,136 mi., from E. L. Reed, Defiance, (a) $59,382, (c) $59,362, (e) $98,319, (f) $72,000; C. V. Rector, Muncie, Ind., (a) $60,326, (b) $60,326, (c) $60,326; Ada Constr. Co., Ada, (a) $62,430, (c) $63,422; Westrick, Krauss & Shreves, Napoleon, (b) $69,368, (d) $83,019; Republic Asphalt Paving Co., 702 Commercial Bldg., Dayton, (d) $84,344; Radebaugh & Graham Co., Columbus, (d) $87,325, (e) $107,587; G. B. Walther, Lima, (e) $105,322, (f) $71,289; Lima Willite Co., Lima, (f) $70,832. Fairfield Co., Sect. "G" Lancaster-Newark Rd., from C. S. Wilcox, Ada, (a) $66,496, (c) $66,496; W. C. Moore, Marysville, (a) $69,846, (c) $71,020; J. C. McCann, 191 Belvidere Ave., Columbus, (a) $69,932, (c) $69,932; W. H. Ringwould Co., Chillicothe, (b) $72,227; Neff & Rader, Circleville, (b) $76,840. Hancock Co., Sect. "Van Buren" Findlay-Bowling Green Rd., 0.5 mi. from Thompson-O'Rourke Co., Toledo, (g) $26,514, (h) $26,514; A. G. Pugh, Columbus, (g) $23,166; Columbus Asphalt Paving Co., 288 East 16th Ave., Columbus, (g) $26,684. Noted April 20.

Ohio—Dept. Highways and Pub. Wks., Columbus, opened bids April 18, grading, bridging and paving roads with (a) waterbound macadam, (b) brick, (c) state to furnish brick, (d) asphaltic macadam, (e) tar macadam, (f) brick and asphaltic macadam, (g) brick and asphaltic macadam, state to furnish brick, (h) brick and tar macadam, (i) brick and tar macadam, state to furnish brick, in following counties: Geauga Co., Sect. "A" Hampden-Andover Rd., 2.18 mi. from Keener & Betts, Madison, (a) $42,119; Gray Bros., Youngstown, (a) $43,154; F. Roberts, Youngstown, (a) $46,767. Muskingum Co., Sect. "P" Zanesville-Dresden Rd., 3.91 mi., from Billiter & Oliver Bros., Cincinnati, (b) $137,720, (c) $110,792, (d) $112,481, (e) $112,481; H. N. Snyder, Columbus, (b) $150,599, (d) $125,552; Holmes Constr. Co., Millersburg, (b) $151,582; Dunsweiller Constr. Co., Zanesville, (c) $128,069; Wilson-Miller Co., Barnesville, (d) $123,248, (e) $123,248. Trumbull Co., Sect. "L" Niles-Ashtabula Rd., 3.13 mi., from E. A. Freshwater & Sons, Bucyrus, (b) $131,480, (c) $94,000; De Ore & Colucci, Youngstown, (b) $132,689, (c) $95,640; Turner Contg. Co., Park Theatre Bldg., Youngstown, (b) $132,886; Doris Constr. Co., Akron, (c) $96,905. Trumbull Co., Sect. "B" Painesville-Warren Rd., 7.38 mi., from Mahoning Constr. Co., Warren, (b) $212,033, (c) $192,900, (f) $172,646, (g) $154,218, (h) $170,676, (i) $152,506; Turner Contg. Co., Youngstown, (b) $212,683; Doris Constr. Co., Akron, (b) $215,806, (c) $195,000; Evans Bros., Hubbard, (f) $177,066, (h) $177,066; McDermott & Hannon, Niles, (f) $181,318, (h) $180,263. Noted April 6.

O., Chardon—Geauga Co. paving Cleveland-Burton Rd., 47,322 sq.yd. 8 in. waterbound macadam, from Post Constr. Co., 10823 Fairchild Ave., Cleveland, $99,717.

O., Euclid—Grading and laying sidewalks on (1) Mayfield Rd., (2) Elmwood Rd., (3) Winston Rd., (4) Ardmore Rd., 129,500 lin.ft. 2½ x 5 in. concrete sidewalk, 18,000 cu.yd. earth excav., from V. Q. Galier, Builders Exch., Cleveland, (1) $22,526, (2) $3,159, (3) $4,675, (4) $3,159; Strohman & Kidder, 486 The Arcade, Cleveland, (1) $26,011; F. B. Stein, Euclid, (2) $3,336, (4) $3,336; O. J. Leach, 878 Thornhill Rd., Cleveland, (3) $5,340.

O., Lakewood (Cleveland, P. O.)—Grading and paving Bayes Ave., 5,970 sq.yd. asphalt, from Highway Constr. Co., Elyria Blk., Elyria, $27,101; Cleveland Trinidad Paving Co., The Arcade, Cleveland, $28,086.

O., Painesville—Lake Co. grading and paving Painesville-Ravenna Rd., from Post Constr. Co., 20823 Fairchild Ave., Cleveland, $94,011; L. G. Booth, Painesville, $101,113.

Mich., Detroit—Paving with rein.-con. following alleys: (1) 1418, (2) 1419, (3) 1420, (4) 1421, (5) 1422, (6) 1423, (7) 1424, (8) 1425, (9) 1426, (10) 1427, (11) 1428, (12) 1429, from T. E. Currie, 20 McGraw Bldg., (1) $3,833; Reading Corp., 413 West Fort St., (2) $999; R. J. Powelson & Co., 1577 Iroquois Ave., (3) $2,117, (6) $2,014, (9) $2,927; Gustin & Co., 5930 Colfax Ave., (4) $4,050, (8) $3,803, (10) $3,166, (11) $2,045; J. Porath, 745 Griswold St., (5) $935, (7) $1,415; Otis Cement Constr. Co., 806 Hammond Bldg., (12) $2,449.

Wisconsin—State Hy. Dept., Madison, opened bid of J. Marsch, Inc., Wrightwood Ave., Chicago, Endeavor-Portage Rd., Federal Aid Project 307, Columbia Co., 31,275 cu.yd. earth excav., $0.29, 8,000 cu.yd. gravel surfacing $2.55, etc., total $60,151. Janesville-Evansville Rd., Job No. 272, Rock Co., 31,000 cu.yd. grading $0.29, 500 cu.yd. borrow $0.29, total $9,135.

Tex., Barstow—Ward Co. opened bids April 12, grading and surfacing 12.5 mi. State Highway 1, Federal Aid Project 263, from Tibbetts Constr. Co., 209½ West 8th St., Ft. Worth, $72,920; Womack Constr. Co., Sherman, $88,074; J. C. Hunter, Van Horn, $102,299. Noted April 6.

Wash., Seattle—Paving Hudson St., low bid from V. Ramaglia, 4415 Corliss Ave., $72,411.

Cal., Fresno—Improving Wilson Ave. between Belmont and Olive Aves., 118,128 sq.ft. grading, 89,501 sq.ft. paving, 4,125 lin.ft. curbs, 13,944 sq.ft. walks, etc., from Frederickson & Shannon, Cory Bldg., $30,585; Kaufield & Tompkins, 2225 Fresno St., $32,107; Federal Constr. Co., Call Bldg., San Francisco, $33,014.

CONTRACTS AWARDED

N. Y., Albany—Bd. Contract & Supply, repaving Clinton Ave., to R. Hopkins Co., Troy, $217,685; Central and 2nd Aves., to J. P. Dugan & Co., 36 State St., $232,441 and $151,502, respectively. Noted April 13.

N. Y., Mayville—Chautauqua Co. will pave and grade 5.46 mi. Sherman-Findlay Lake Rd., Part 2, $201,005 and pave 2.87 mi. Sinclairville-Charlotte Center Rd., $84,617, both 10 ft. concrete, 6 ft. gravel, by day labor. W. J. Knauer, 255 Roberts Bldg., Jamestown, engr.

N. Y., Penn Yan—Bd. Supervs. repairing and resurfacing Geneva-Hall and Penn Yan-Hall Rds., to Long, Ford & Keyser, Batavia, $99,153.

N. Y., Saratoga Springs—Bd. Supervs. Saratoga Co. (Ballston Spa.) will construct about 80 mi. new highway by day labor, under supervision of J. E. Hodgman, Ballston Spa., co. supt. $2,500-$10,000 per mi.

N. Y., Syracuse—Bd. Contract & Supply resurfacing West Belden Ave. and Harrison St., to G. B. Dickison, Union Bldg., $2,194 and $3,331 respectively; Canal St., to C. T. Hookway, Bastable Bldg., $12,859; Cortland Ave. to J. H. Gallup, Union Bldg., $9,221. Noted April 20.

N. Y., Utica—To J. H. Gallup, Union Blk., Syracuse, resurfacing Cortland Ave., $9,221, paving Vine St., $4,607, Spencer St., $40,692; to G. B. Dickison, Utica, resurfacing West Belden Ave., $2,194, Harrison St., $3,331, paving Brattle Rd., $14,680, Sedgewick Dr., $19,111, Farmer St., $9,011, to C. T. Hookway, Bastable Bldg., Syracuse, resurfacing Canal St., $12,859, paving East Laurel St., $10,560, West Fayette St., $7,562; to F. J. Baker, Utica, paving Pattison St., $10,827, Oak St., $20,374.

N. Y., Watervliet—Paving (a) 4th and 5th Aves., (b) 7th Ave., rein.-con., to J. C. Connors Co., 137 Jay St., Schenectady, (a) $31,099, (b) $26,929. Noted April 6.

N. J., Bridgeton—Cumberland Co. paving State Highway Route 15, Sects. 2 and 3, Bridgeton-Millville Rd., warrenite bitulithic, to Tri-State Constr. Co., Bridgeton, $455,500. Noted March 30.

N. J., Freehold—Bd. Freeholders Monmouth Co., constructing State Highway Route 4, Sect. 10 from Roseld Ave., Deal to Shadow Lawn, to Newark Paving Co., 133 1st St., Newark, $104,970. Noted March 23.

N. J., Freehold—Bd. Freeholders Monmouth Co., repaving Red Bank, Fair Haven, Oceanic Rd., No. 48, Sect. 2, rein.-con., to Jannarone Constr. Co., Belleville, $91,682. Noted March 30.

N. J., Freehold—Bd. Freeholders Monmouth Co., reconstructing Sect. 2 Adelphia-Farmingdale Rd., to S. S. Thompson Co., Inc., Red Bank, $118,184. Noted March 23.

N. J., Sea Girt—Bd. Freeholders Monmouth Co. (Freehold) constructing State Highway Route 4, Sect. 12 Sea Girt Ave., here, to T. H. Riddle, 102 Church St., New Brunswick, $8,569. Noted March 23.

N. J., Toms River—Ocean Co. paving State Highway Route 4, Sect. 14, Laurelton-Lakewood Rd., to C. H. Earle, 173 Main St., Hackensack, $144,706. Noted March 30.

N. J., Woodbury—Bd. Freeholders Gloucester Co. resurfacing part of Westville-Glassboro Rd., Peptford and Washington Twps., to J. F. Burke, 309 Park Ave., Plainfield, 69.49% of engineer's estimate ($143,672). Noted April 6.

Pa., Williamsport—To Busch & Stewart Co., Inc., Susquehanna Trust Bldg., paving 2,267 sq.yd. Oliver St. $9,052, 3,778 sq.yd. Hepburn St., $15,245, 3,786 sq.yd. Front St. $15,234, 1,381 sq.yd. Park St. $6,180, 2,662

Streets and Roads (Continued)

sq.yd. William St. $10,356, 1,660 sq.yd. Court and Jefferson St. $7,369, 2,600 sq.yd. Walnut St. $9,969, 3,860 sq.yd. Campbell St. $14,676, all brick on 3¾ in. base; Central Constr. Co., Commonwealth Trust Bldg., Harrisburg, 8,150 sq.yd. Franklin St. $29,-634, 19,927 sq.yd. Park Ave. $71,096, 14,-782 sq.yd. West 3rd St. $52,564, sheet asphalt on 3 in. base.

Virginia—State Hy. Com., Richmond. 6.19 mi. Route 23, between Ripplemead and Hoges Store, Giles Co., 18 ft., bituminous macadam, to Worden Constr. Co., Pulaski, $119,134. Noted April 6.

Va., Norfolk—Paving Plume, Clifton, Blow, 20th, 37th, 40th and 44th Sts., to F. J. McGuire, Paul-Gale-Greenwood Bldg., Norfolk, $65,105. Noted April 6.

W. Va., West Union—Doddridge Co. paving 2.4 mi. Northwestern Pike, Federal Aid Project 109, to Hardmann & Minns, Spencer, $67,514.

N. C., Fayetteville—Resurfacing Ramsey St. and part of Gillespie St., 42,000 sq.yd. tarvia, to Barrett Co., 36 St. and Grays Ferry Rd., Phila., $30,000; paving Hay, Person, Green and Gillespie Sts., 30,000 sq. yd. bitulithic, to Atlantic Bitulithic Co., Virginia Ry. & Power Bldg., Richmond, Va., $75,000.

Ga., Atlanta—Fulton Co. will pave 2½ mi. Powers Ferry Rd. from Mount Perrin to Lawrenceville Rds., 20 ft., asphaltic cement. Work will be done by convict labor.

Fla., Kissimmee—Paving 8 mi. roads in Dist. 4, clay, to Prior & Deen, Loughman, $69,200. Noted April 6.

Miss., Jackson—Paving Bailey Ave., Lynch, Clifton and Congress Sts., 60,000 sq.yd. 1½ in. sheet asphalt on 5 in. concrete, to Dunn Constr. Co., Inc., Chamber of Commerce Bldg., Birmingham, Ala.

Tennessee—State Hy. Dept., Nashville, grading and surfacing 16.65 mi. State Highway 51, between Lawrenceburg and Wayne Co. line, Federal Aid Project 62, Wayne Co., to Smith, Pitts & Son, Mt. Pleasant, $103,854, rejected bids for bridges over 20 ft. span on above project; grading and hand placed coarse stone base, rock asphalt surfacing, 9.98 mi. State Highway 1, between Madison Co. line and Brownsville, Federal Aid Project 70, Haywood Co., to Hughey Bros., 302 Exch. Bldg., Memphis, $320,180, bridges over 20 ft. span on above project to Estes-Williams-Ragsdale Co., Scim Bldg., Memphis, $15,875. Noted March 30.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving 1.557 mi. Sect. "D" Bellefontaine-Wapakoneta Rd., Auglaize Co., rein.-con., to Radebaugh & Graham Co., Columbus, $36,-911; 4.97 mi. Sect. "C" Cleveland- Burton Rd., Geauga Co., waterbound macadam and 4.53 mi. Sect. "A" Painesville-Ravenna Rd., Lake Co., rein.-con., to Post Constr. Co., Cleveland, $99,717 and $94,011 respectively; 4.376 mi. Sect. "A" Greenville-Union City Rd., Darke Co., brick, to Studebaker & Son, Greenville, $147,412. Noted April 20.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving 1.051 mi. Sect. "A-1" West Minster-New Hampshire Rd., Allen Co., asphaltic macadam oil, to R. Stone Constr. Co., Lima, $19,940; 6.188 mi. Sect. "K" Van Wert-Paulding Rd., Van Wert Co., rein.-con., to S. Putnam, Van Wert, $147,997; 3.476 mi. Sect. "K" Mansfield-Mount Gilead Rd., Richland Co., concrete, to Pettibone & Graves, Lakeside, $121,300. Noted April 20.

O., Bucyrus—Paving 5,500 sq.yd. Lane St., to L. R. McMichael, Bucyrus, $22,450. Noted April 6.

O., Cleveland—Grading, curbing and paving Dawning Ave. and West 36th St., etc., to Roehl Bros., West 25th St. and Clark Ave., $15,967 and $13,176 respectively. Macauley Ave., to Gould & Maybach, 823 East 150th St., $11,913; East 67th St. and Wellesley Dr., to Garland Bros., Pavers Exch., Society for Savings Bldg., $4,362 and $6,267 respectively; Aetna Rd. and Helena Ave., to Baldwin Bros., 4500 Euclid Ave., $12,730 and $8,463 respectively; Hough Ave. and Nanford Rd., to Cleveland Trinidad Paving Co., The Arcade, $18,481 and $7,071 respectively; West 97th St., to Freshwater Constr. Co., Natl. Bldg., $6,216; Norman Ave., to M. A. Ryan, Pavers Exch., Society for Savings Bldg., $9,008. Noted April 20.

O., Lima—Paving various streets with asphalt, to Federal Asphalt Paving Co., Main and D Sts., Hamilton, $55,000; various streets with brick, to Andrews Asphalt Paving Co., 717 Rentschler Bldg., Hamilton, $42,000, and J. J. Johnson Co., Napoleon, $6,000.

Michigan—State Hy. Dept., Lansing, grading and surfacing 7.794 mi. Federal Aid Project 47. Sec. D. to Oosting & Hopteen, Holland, 27,110 cu.yd. excav. $0.53, 172 cu.yd. 1:2:4, 91.6 cu.yd. 1:2½:5 and 77.5 cu.yd. 1:3:6 concrete, all $12, 81,-132 sq.yd. concrete pavement, $1.45, etc., total $139,013. Noted April 6.

Michigan—State Hy. Dept., Lansing, grading and surfacing 3.562 mi. State Trunk Line Rd. 18-16, Roscommon Co., to T. H. Duvall, McBain, $32,720. Noted April 6.

Michigan—State Hy. Dept., Lansing, grading and surfacing 5.795 mi. State Trunk Line Rd. 16-14, Sects. A and C, to Cook, Clark & Lang, 319 South 5th St., Grand Haven, incl. 23,861 cu.yd. excav., $0.50, 248.4 cu. yd. 1:2:4 concrete, $14, 110.6 cu. yd. 1:2½:5 concrete, $12, and 415.1 cu. yd. 1:3:6 concrete, $11.50, 61,136 sq.yd. concrete pavement, $1.20, 5.8 mi. seeding $27, total $100,299.

Mich., Detroit—To Detroit Asphalt Paving Co., 20 McGraw Bldg., paving Beechwood Ave., $48,709, Canton Ave., $5,325, Cloverlawn Ave., $29,806, Gibson Ave., $2,-211, Gratiot Ave., $11,440, Northlawn Ave., $27,795, Ogden Ave., $6,523, Rosemary Ave., $21,854, Stoepel Ave., $5,787, Yosemite Ave., $9,197; Cleveland Trinidad Paving Co., 402 Hammond Bldg., Richton Ave., $30,537, 12th St., $19,144. Noted April 20.

Ill., Rockford—Winnebago Co., grading and paving 8.5 mi. state road north of here, 18 ft., 90,000 sq.yd. concrete, to F. E. Marsh & Co., Jefferson, Ia., $160,000.

Wisconsin—State Hy. Dept., Madison, 7 mi. Beloit-Delavan and Beloit-Clinton Rd., Federal Aid Project 305, State Aid Job 271, Rock Co., to R. R. Birdsall, 1025 12th St., Racine, 23,436 cu.yd. excav., $0.68, 254 cu.yd. borrow $0.68, 77,176 sq.yd. concrete surfacing $1.07, etc., total $108,472. Noted March 30.

Wis., Beloit—Paving various streets rein.-con., to Clayton Constr. Co., 397 Farwell Ave., Milwaukee, 50,000-60,000 sq.yd. paving $1.93, street car track portion where steel ties are used $2.84, wood ties $2.73, grading $0.70, integral curb $0.21. Contractor receiving bids on grading and materials for pavement. Noted April 13.

Wis., Elkhorn—Walworth Co., Lake Geneva-Springfield Rd., to R. R. Birdsall, 1025 12th St., Racine, 16,949 cu.yd. earth excav., $0.70, 5,428 sq.yd. concrete surfacing full width $1.35, 36,434 sq.yd. 18 ft. concrete surfacing, $1.24, etc., total $77,-125; Elkhorn-East Troy Rd., to Russell Bros., 1023 Hammond St., Superior, 12,961 cu.yd. excav. $0.80, 4,150 sq.yd. concrete surfacing full width $1.15, 38,500 sq.yd. 18 ft. concrete surfacing $1.11, etc., total $63,-776. Noted April 6.

Wis., Fond du Lac—Fond du Lac Co. concrete surfacing, etc., Fond du Lac-Waupun Rd., Sects. A and B combined, to Widell Co., 229 South Front St., Mankato, Minn., $259,270; Kewaskum-Waucousta Rd., to Brogan & Schaefer, 700 Dousman St., Green Bay, $114,824; Fond du Lac-Eden Rd., to Froemming Bros., 1326 Humboldt Ave., Milwaukee, $141,127; Brandon-Ladoga Rd., to F. Doherty, 753 47th St., Milwaukee, $112,154; Ripon-Rosendale Rd., to Lampert Constr. Co., 104 Main St., Oshkosh, $128,047. Noted April 6.

Wis., Kenosha—Paving Pine, Edward, Prairie and Racine Aves., brick, also Tanck Ave., Grove and Charles Sts., rein.-con., to J. Cape & Sons, 468 Water St., Racine, $144,935 and $57,808 respectively; Brockett and Newell Sts., asphalt, to Western Impvt. Co., 840 9th St., Racine, $52,620.

Wis., Milwaukee—Milwaukee Co. Rd. and Bridge Com. concrete surfacing, etc., Burleigh Rd. No. 3, to F. W. Blodgett, 204 Grand Ave., $9,900; 8th Ave. Rd. No. 3, to R. H. Gumz, 831 13th Ave., $26,780; Hawley Rd. No. 1, to Schoonmaker Constr. Co., 86 Michigan St., $16,545; South Fond du Lac Rd. No. 2, to J. J. Fons, Whitefish Bay, (Milwaukee P. O.). $55,170.

Wis., Stevens Point—Paving various streets, 20,000 sq.yd. asphaltic concrete, to J. Rasmussen & Sons, foot of 7th St., Oshkosh, $2.66 per sq.yd.; 20,000 sq.yd. rein.-con., to Cast Stone Constr. Co., 318½ South Barstow St., Eau Claire, $1.93. Noted April 6.

Wis., Waukesha—Waukesha Co. Road and Bridge Com., Butler-New Butler Rd., 10,800 sq.yd. 18 ft. concrete surfacing, Waukesha-Templeton Rd., 55,200 sq.yd. concrete surfacing, to F. Doherty, 1753 47th St., Milwaukee, $17,885 and $78,516 respectively; Milwaukee-Burlington Rd., 35,750 sq.yd. concrete surfacing, to Jorgenson Constr. Co., Denmark, $64,402; gravel surfacing 5.59 mi. Stone Bank-North Lake Rd. to J. Gunnison & Sons, 449 West Mifflin St., Madison, $29,055. Noted April 6.

Wis., Wisconsin Rapids—Wood Co. Wisconsin Rapids-Sherry-Milladore Rd., to Blake Paving & Constr. Co., 627 South River St., Appleton, 6,594 cu.yd. grading $0.85, 531 cu.yd. borrow $0.85, 18,727 sq.yd. concrete surfacing $1.46, etc., $35,333; Marshfield-Neillsville and Marshfield-Pittsville-Babcock Rd., Projects 250 and 297, to Iron River Constr. Co., Iron River, Mich., $130,344. Noted April 13.

Ia., Atlantic—Cass Co., grading 16.943 mi. Federal Aid Project 155 from point ½ mi. east of here, south to Montgomery Co. line, 294,154 cu.yd. excav., to E. A. Wickham, 19 Scott St., Council Bluffs, $0.249 per cu.yd. Noted March 23.

Ia., Des Moines—Polk Co., grading and concrete paving 12 mi. Federal Aid Project 132, primary road from Des Moines to Polk City, 38,865 cu.yd. excav. and 149,128 sq.yd. concrete pavement, to Bryant Asphalt Paving Co., Waterloo, $0.60 per cu.yd. and $2.34 per sq.yd. respectively. Noted April 13.

Ia., Ft. Dodge—Paving 10,000 sq.yd. streets, Dists. 1, 2, 3 and 4, to J. Horrabin and E. Rasmussen, 1422 Walnut St., Des Moines, asphaltic concrete $2.99 per sq.yd., concrete curb $0.89 per yd. Noted April 6.

Ia., Ottumwa—Wapello Co., grading 17.05 mi. Federal Aid Project 159, primary roads west and north from here, to Lamoreaux Bros., 805 Brandeis Theatre Bldg., Omaha, 208,215 cu.yd. earth excav. $0.25 per cu.yd., 97,477 cu.yd. $0.24, and 620 cu.yd. solid rock excav. $2 per cu.yd. Noted March 16.

Minn., Stillwater—Washington Co., grading and gravel surfacing Job 2201, State Rd. 3, 53,000 cu. yd. excav., 12,800 cu. yd. gravel surfacing, etc. to Jamison, Thoreen & Sandeen, Stillwater, $0.27 per cu. yd. for earth excav., $0.65 for loose rock, $1.50 for solid rock, gravel surfacing $0.30 to $0.65 per cu.yd. Noted March 23.

Minn., Two Harbors—Will pave 8 blocks 2nd Ave. between Willow and Cherry Sts., concrete, by day labor. $35,000. Bids opened April 3 rejected. Noted March 30.

Kan., El Dorado—Butler Co. paving, grading and surfacing 5.057 mi. Federal Aid Project 90, Sect. A, 29,000 cu.yd. earth excav., 52,800 sq.yd. brick, to Smith-Graham Constr. Co., Augusta, $181,600; grading to D. C. Washburn, Pawhuska, Okla., $10,006; culverts, to Missouri Valley Bridge & Iron Co., 1006 Schweiter Bldg., Wichita, $11,158.

S. D., Aberdeen—Brown Co., grading 19 mi. road from Hecla to Frederick, to H. C. Hanson, Aberdeen, $38,000.

N. D., Fargo—Paving portions 10th and 11th Sts., 7th and 8th Aves. S., Dist. 3, Job 162, to W. E. Kennedy, Fargo, $61,278. Noted April 13.

N. D., Grafton—Walsh Co., 15 mi. State Highway between here and Park River, 69,-476 cu.yd. excav., to W. Schultz, Fergus Falls, Minn., $15,774; 2,186 lin.ft. 18-30 in. culverts, to North Dakota Metal Culvert Co., Fargo, $2,692; 297.01 cu.yd. Class A and 107,000 cu.yd. Class B concrete, to J. P. Kennedy, 1115 University Ave., Grand Forks, $10,887.

Missouri—State Hy. Dept. at div. office Bethany, to W. R. Larson Constr. Co., 520 2nd Natl. Bank Bldg., Sioux Falls, S. D., 6.149 mi. Jefferson Highway, Federal Aid Project 50, Harrison Co., $24,363, bridges on above project, $15,947. Noted April 20.

Missouri—State Hy. Dept. at div. office Carthage, 6.975 mi. road from Carthage to Springfield, Federal Aid Project 169, Jasper Co., to Easley Bros., Aurora, $18,879. Noted April 20.

Missouri—State Hy. Dept. at div. office Gainesville, 21.214 mi. road from Gainesville to West Plains, Federal Aid Project 111 B, Ozark Co., to Alexander & Baity, Springfield, $53,116. Noted April 20.

Missouri—State Hy. Dept. at div. office Galena, 3.61 mi. road from Reed Springs to Blue Eye, Federal Aid Project 161, Sect. D, Stone Co., to Oberlander Bros., Nixa, $22,837. Noted April 20.

Missouri—State Hy. Dept. at div. office Hermitage, 7.4 mi. road from Preston northward and southward, Federal Aid Project 45, and 7.035 mi. road from Collins to Preston, Federal Aid Project 98, both Hickory Co., to M. E. Gillioz, Monett, $31,-689 and $37,953 respectively. Noted April 20.

Missouri—State Hy. Dept. at div. office Nevada, 6.676 mi. road from Nevada to Ft. Scott and from Neveda to El Dorado Springs, State Aid Project 20.72, Vernon Co., to Allhands & Davis, Joplin, $15,552. Noted April 20.

Tex., Amarillo—Potter Co., grading, gravel and sand clay surfacing 4.34 mi. State Highway 5-N, to F. K. Keller & Son, Amarillo, $23,174, including 10% for engineering and contingencies. Noted March 30.

Tex., Dallas—Dallas Co. paving 4,000 ft. Dallas to Oak Cliff Viaduct, asphaltic concrete, to Texas Road Co., Great Southwestern Life Bldg., $1.84 per sq.yd., total $33,-488. Noted April 20.

Streets and Roads (Continued)

Tex., San Angelo—Paving 4 mi. various streets, asiesite concrete, to O'Connor, Smith & Co., 100 Gaston Bldg., Dallas, $263,000.

Tex., Vernon—Wilbarger Co. opened bids March 29, 1.9 mi. North and South Road out of here, to O. A. Swinburn, Vernon.

Tex., Wichita Falls—Wichita Co. paving Burnett St., 2 in. warrenite bitulithic on 5 in. concrete, to West Texas Constr. Co., Ft. Worth, $66,987.

Colorado—State Hy. Dept., Denver, grading 4.4 mi. road beginning at end of present Mt. Evans Rd. near Echo Lake and extending toward the summit, 16 ft., Federal Aid Project 650, Clear Creek Co., to H. H. Honnen, 919 North Weber St., Colorado Springs, $33,687; 3.8 mi. road on Walden-Cameron Pass Rd., State Project 563-B, Jackson Co., to H. Shore, Steamboat Springs, $13,453. Noted March 30.

Col., Denver—Paving with concrete, to J. V. Stryker, 1507 Blake St., 12 blocks Alley Paving Dist. 68, $24,361; 12 blocks Alley Paving Dist. 69, $23,789; 12 blocks Alley Paving Dist. 70, $16,734. Noted March 30.

Col., Denver—Concrete curbing, grading and surfacing ½ mi. square West Colfax Impvt. Dist., 30 ft., to Gibbons & Lawrence, 4680 Vine St., $60,298. Noted March 30.

Nevada—Directors State Hy. Dept., Carson City, grading and gravel surfacing 16.1 mi. Zola-Humboldt House Rd., Pershing Co., to W. N. Strahan, Portland, Ore., $35,149; 2.37 mi. road near Cradlebaugh's bridge, Douglas Co., to Redmond & Page, Balboa Bldg., San Francisco, Cal., $23,717. Noted April 6.

Washington—State Hy. Dept., Olympia, grading and gravel surfacing 3.6 mi. Sunset Highway, Cashmere to Dryden, to Anderson & Nelson, Tonasket, $56,260; 2 mi. Squilchuck-Wenatchee Heights Rd., Chelan Co., to Mohr Constr. Co., Waterville, $25,702. Noted March 30.

Wash., Chehalis—Replacing present Warrenite pavement on Market St., from Main to 11th St., 13,897 sq.yd. 7 in. concrete, 2,856 lin.ft. 6-18 in. sewer pipe, etc., to Albers Constr. Co., Chehalis, $52,842. Noted March 30.

Wash., Olympia—Paving 5 mi. East Bay Ave., et al, 6½ in. concrete, concrete walks, curbs, gutters, mains, etc., to Yakima Paving Co., Yakima, $129,031. Noted March 30.

Wash., Tacoma—Pierce Co., grading and paving 1 mi. East Side Dr., concrete, to Anderson & Lilljbeck, Tacoma, $25,258.

California—State Hy. Comn., Sacramento, paving 12.3 mi. highway between Banning and Whitewater, Riverside Co., to Lee Moor Contg. Co., El Paso, Tex., 65,500 cu.yd. excav., at $0.40, 17,400 cu.yd. Class A portland cement concrete pavement, $8.40, 150 cu.yd. Class A portland cement concrete, culverts and monuments, $20, etc., total $177,880. Noted March 16.

Ont., Sandwich—Paving Tournier, Partington and Chippewa Sts., concrete, to S. P. West, Sandwich, $51,351.

Cal., Santa Monica—Paving 22nd and 23rd Sts., to Kneen Paving Co., Dudley Bldg., $29,657. Noted March 30.

Industrial Works

PROPOSED WORK

N. Y., Buffalo—Auto Knitter Hosiery Co., 638 Genesee St., plans additions to warehouse and office building. $41,000. Architect not announced.

N. Y., Lowville—G. A. Smith Co. plans 1 story, concrete and steel garage and machine shop, State and Jackson Sts. $40,000. Address G. A. Smith, Lowville.

N. Y., Rochester—Yawman-Erbe Co., 424 St. Paul St., having plans prepared by Smith, Hinchman & Grylls, archts., 710 Washington Arcade, Detroit, Mich., 3 story, rein.-con. and brick addition to plant, plain foundation. $100,000.

N. J., Camden—Neel-Cadilac Co., 525 Market St., having plans prepared by Lackey & Hettle, archts., 5 Hudson St., 2 story, 80 x 175 ft., brick and steel garage and service station, plain foundation, Federal St. $75,000.

Pa., Erie—Erie Metal Furniture Co., soon lets contract 1 story, 120 x 200 ft. brick and steel factory. $65,000. Architect not announced.

Pa., Erie—Union Iron Wks. Inc., plans to reconstruct factory destroyed by fire, $100,000. Architect not announced.

La., Shrewsbury — See "Contracts Awarded."

WATER MAINS—CLEVELAND, OHIO

Bids were opened by Dept. Pub. Utilities, Div. Water, Apr. 12, (lowest 3) for furnishing and laying steel raw water mains, Baldwin-Fairmount Project, Contr. No. 11, from (A) P. F. Connolly, Kent, (60-in. lock bar pipe); (B) T. A. Gillespie, 7 Dey St., New York, (60-in. lock bar pipe); (C) P. F. Connolly, (63-in. R. S. pipe). The unit bids were as follows:

	A	B	C
28,200 cu.yd. earth excavation and backfilling	$1.74	$2.32	$49,068.00
9,200 lin.ft. furnishing and laying steel pipe	14.74	14.82	15.34
1,083 tons furnishing and laying cast iron, straight, bell and spigot pipe	59.00	52.42	63,897.00
155 tons furnishing and laying cast iron, bell and spigot standard fittings	140.00	106.42	21,700.00
36 tons furnishing and laying cast iron, bell and spigot special fittings	175.00	106.42	6,300.00
125 cu.yd. brick masonry	20.00	27.00	2,500.00
425 cu.yd. concrete masonry	15.00	10.50	6,375.00
Extended totals including all items (22 items)	$289,376	$293,487	$294,896

Bids were opened by Dept. Pub. Utilities, Div. Water, Apr. 12, (lowest 3) for laying two 60-in. c.i. raw water mains, Baldwin-Fairmount Project, Contr. No. 14, from (A) J. T. Martin, 1452 West 98th St.; (B) Post Constr. Co., 10823 Fairchild Ave.; (C) Hammen & Co., Mankato, Minn. The unit bids were as follows:

	A	B	C
22,556 cu.yd. earth excavation and backfilling	$2.00	$1.76	$2.75
3,000 cu.yd. rock excavation and backfilling	7.50	5.20	2.75
5 M. ft. B.M. lumber and wooden sheeting left in place	30.00	100.00	50.00
9,950 lin.ft. laying 60-in. cast iron, bell and spigot pipe and fittings	3.00	4.17	4.50
45 lin.ft. laying 36-in. cast iron, bell and spigot pipe and fittings	2.75	3.62	3.00
140 cu.yd. brick masonry	25.00	48.00	20.00
56 cu.yd. concrete masonry	15.00	56.00	15.00
Extended totals including all items (15 items)	$102,958	$109,227	$121,132

CAST IRON PIPE—CLEVELAND, OHIO

Bids were opened by Dept. Pub. Utilities, Div. Water, Apr. 12, for furnishing c.i. pipe for 60-in. raw water mains, Ansel Rd., to East 107th St., Contr. No. 9, from (A) Bowler Foundry Co., 1688-92 Columbus Rd., Cleveland; (B) United States Cast Iron Pipe & Foundry Co., 122 South Michigan Ave., Chicago. The unit bids were as follows:

	A	B
6,156 tons furnishing and delivering cast iron, standard lengths, bell and spigot pipe	......	$40.00
261 tons furnishing and delivering cast iron, bell and spigot standard fittings	$88.25	95.00
46 tons furnishing and delivering cast iron, bell and spigot special fittings	88.25	105.00
Extended totals	$27,093	$275,865

O., Cincinnati—L. P. Hazen and associates, Court House, plan 12 story garage, on 100 x 140 ft. site, 8th St. $1,000,000. Architect not selected.

O., Cleveland—Superior East 49th Co., c/o G. Paul, 611 Fidelity Mortgage Bldg., having plans prepared by J. F. Steffens, archt., 611 Fidelity Mortgage Bldg., 1 and 2 story, garage and commercial building, brick and steel, plain foundation, East 49th St. and Superior Ave. $200,000.

O., Dayton—Dayton Power & Light Co., Jefferson St., plans to install new boilers and 27,000 hp. steam turbine and erect 330 ft. stack at Millers Ford plant, also enlarge and double present facilities at West Side sub-station, at cost of $150,000. Total $2,000,000. O. H. Hutchings, genl. mgr.

O., East Cleveland (Cleveland P. O.)—W. F. McCarty, 14840 Euclid Ave., had plans prepared 1 story, 50 x 133 ft., brick and steel garage and commercial building, plain foundation, 14830 Euclid Ave. $40,000. Private plans.

O., Euclid—D. S. Blossom of W. Bingham Co., West 9th St., Cleveland, had plans prepared by A. Garfield, archt., Natl. City Bldg., Cleveland, 2 story, 48 x 76 ft., brick, steel and concrete garage and stable, Richmond Rd., here. $40,000.

O., Euclid—M. Brewer and J. B. Clark, 18601 Abbey Rd., had plans prepared 1 story, 48 x 80 ft. and 1 story, 40 x 50 ft., brick and timber garages, Stop 10½ Euclid Ave. $40,000. Private plans.

Mich., St. Joseph—Auto Specialty Mfg. Co. takes bids about May 1, 1 story, rein.-con., brick and steel factory addition. $100,000. Davidson & Weiss, 53 West Jackson Blvd., Chicago, archts.

Ill., Paris—H. Link having plans prepared by Liese & Ludwick, archts., 618 Temple Bldg., Danville, 1 story, 66 x 140 ft. garage, rein.-con., brick and stone. $40,000.

Wis., Beaver Dam—H. Brueckner having plans prepared by W. F. Bossman, archt., Beaver Dam, 1 story, 46 x 50 ft. garage and repair shop, brick, rein.-con. and tile, plain foundation, Main St. $50,000.

Wis., Beloit—J. H. Saris, 412 Broad St., having plans prepared by J. T. Hetherington, archt., 38 Dearborn St., Chicago, 2 story, 100 x 130 ft., brick, rein.-con. and steel garage and factory, plain foundation, Broad St. $75,000. Noted March 16.

Wis., Beloit—J. Terwilliger, 318 Broad St., plans 2 story, 73 x 120 ft. garage and repair shop, brick, rein.-con. and steel, plain foundation, Broad St. $55,000. Architect not selected.

Wis., Milwaukee—M. Hilty Lumber Co., foot 12th St., having plans and specifications prepared by Cahill & Douglas, engrs., 217 West Water St., new steam power plant, 37th St.

Wis., New London—Hamilton & Sons Canning Co. plans 2 story, 50 x 75 ft., brick, rein.-con. and steel cannery, plain foundation. $50,000. Architect not selected.

Wis., New London—F. Schoenrock having plans prepared 1 story, 60 x 100 ft. garage and repair shop, brick, rein.-con. and tile, plain foundation, Main St. $45,000. Private plans.

Wis., Wausau—H. E. Bonsa having plans prepared by Oppenhamer & Obel, archts., Spencer Bldg., 1 story, 50 x 95 ft. garage and repair shop, brick, rein.-con. and steel, plain foundation. $40,000.

Cal., Pittsburg—California Bean Growers Assn., 120 Battery St., San Francisco, having plans prepared by MacDonald Eng. Co., engrs., 149 California St., San Francisco, for first unit of plant here, consisting of warehouse and cannery. $100,000.

Cal., Sacramento—State having revised plans prepared by W. F. McClure, state archt., Forum Bldg., printing plant, 11th and O Sts. $140,000.

Cal., San Francisco—United Garage Co., c/o O'Brien Bros., Inc., archts., 240 Montgomery St., having plans prepared 5 story, rein.-con. garage, Ellis St. near Mason St. $165,000.

Ont., Welland—Empire Cotton Co., having plans prepared by Lockwood, Greene & Co., engrs., 285 Beaver Hall Hill, Montreal, Que., improving plant, incl. extension to weave shed. $200,000. Noted March 16.

BIDS DESIRED

N. Y., New York—May 23, by C. L. Cadle, supt. Pub. Wks., Albany, extension to barge canal terminal freightshed on Pier 93, West 53rd St., North River, here; adv. this issue.

N. J., Beach Haven—May 8, by Boro Council, lighting system and electric power plant, etc. H. C. Verhey and Remington & Vosbury, 601 Market St., Camden, engrs.; adv. this issue.

Pa., Bridgeport—Gehret Bros., receiving bids 1 story, 80 x 120 x 200 ft. brick and steel factory, plain foundation. $50,000. Private plans.

Pa., Phila.—May 1, by L. B. Rothchild, archt., 1225 Sansom St., 8 story, 102 x 102 ft. rein.-con. warehouse, 23rd and Walnut Sts., here, for Baltimore & Ohio R.R., Baltimore and Charles Sts., Baltimore, Md.

Pa., Phila.—C. E. Wunder, archt., 1716 Locust St., receiving bids 13 story, 52 x 180 ft. storage building, rein.-con. and brick, plain foundation, 1809-1813 Market St., for Fidelity Storage Co., 1807 Market St. $350,000.

Industrial Works (Continued)

Va., Norfolk—May 4, by Calrow & Wrenn, archts., New Monroe Bldg., 2 story, 91 x 305 ft., rein.-con. and brick garage, plain foundation, Granby and 11th Sts., for Lowenberg-Goodman Corp., 127 Granby St. $150,000.

Wis., Madison—Madison Gas & Electric Co., 120 East Main St., taking bids 1 story, 50 x 65 ft., rein.-con., brick and steel power house, plain foundation, Main St. $50,000. Mead & Seastone, State Journal Blk., archt.

Wis., Madison—A. E. Small, archt., Ellsworth Bldg., taking bids and opens same about May 10, 1 story, 60 x 186 ft., garage, repair shop and filling station, brick, rein.-con. and steel, plain foundation, University St., for W. F. Clark, 2105 Keyes Ave. Noted April 6.

Wis., River Falls—May 5, by Bd. Normal School Regents, Madison, 1 story, 50 x 95 ft. power and heating plant, brick, rein.-con. and steel, at State Normal School, here. $150,000. A. Peabody, State Capitol, Madison, archt.

Wis., Verona—A. D. Conover, archt., Tenney Blk., Madison, taking bids and opens same about May 10, 50 x 90 ft., brick, rein.-con. and steel power house, plain foundation, for Dane Co., c/o Clerk, Court House, Madison. $40,000. Noted Jan. 19.

Wis., Whitewater—May 5, by Bd. Normal School Regents, Madison, 1 story, 50 x 85 ft. power and heating plant, brick, rein.-con. and steel, at State Normal School, here. $100,000. A. Peabody, Capitol Bldg., Madison, archt.

Cal., San Leandro—Alameda Co., Oakland, receiving bids 1 story laundry and 1 story power house, both tile, on County Infirmary Grounds, here. $60,000. H. H. Meyers, Kohl Bldg., San Francisco, archt. Noted Dec. 8.

CONTRACTS AWARDED

N. Y., New York—W. C. Bergen, c/o C. S. Clark, archt. and engr., 441 Tremont Ave., 2 story, brick, steel and concrete garage, plain foundation, Webster Ave., by day labor. $150,000.

N. Y., Oneida—Smith-Lee Co. will build 2 story, 45 x 225 ft. concrete block and timber factory, by day labor; foundation and erecting steel, to Genl. Erecting Co., 105 Mary St., Syracuse, $55,000. Private plans.

Pa. Chester—Chester Dairy Co. will build 1 story, 45 x 150 ft. brick and steel plant, plain foundation, 9th and Hyatt Sts., by day labor. $50,000. R. J. Lawrence, Roxborough, (Phila. P. O.), engr.

Pa., Phoenixville—Weiland Packing Co., 551 West Bridge St., will build 2 story, 52 x 62 ft. and 29 x 79 ft. plant, by day labor. T. A. Stoutenberg, 1509 Champlost Ave., Phila., archt. Noted April 13.

D. C., Wash.—Chapin-Sacks Co., 1st and M St., N. E., brick and concrete ice plant and office, to F. L. Wagner, 1413 H St., N. W., $75,000. Noted March 9.

La., Shrewsbury—Anderson-Clayton Co., United Cotton Bldg., 922 Gravier St., New Orleans, (first unit) 1 story, rein.-con. warehouse, here, to Foundation Co., Maison Blanche Bldg., New Orleans, $300,000, two 100,000 gal. tanks to Chicago Tank & Iron Wks., Chicago, $9,100. Additional unit will be built later nearer the Mississippi River.

Ky., Louisville — Graham, Anderson, Probst & White, archts., 80 East Jackson Blvd., Chicago, general contract for 2 buildings and bridges, incl. 12 story, 204 x 282 ft. warehouse and office building, to Struck Constr. Co., Clay and Franklin Sts., for Belknap Hardware & Mfg. Co., 127 West Washington St. To exceed $1,000,000. Noted Jan. 19.

O., Dayton—J. Newbauer Sanitary Milk Co., 18 Maryland Ave., 2 story, milk bottling and butter making plant, rein.-con. and brick, plain foundation, Herman and Maryland Aves., to C. F. Schultheis, 2657 West Riverview Ave., $50,000.

O., Silica (Sylvania, P. O.)—Sandusky Cement Co., Engineers Bldg., Cleveland, 1 story, 40 x 240 ft., storage, repair shop and office building, brick and steel, here, to M. Rabbitt Co., 209 Nasby Bldg., Toledo, $150,000.

Mich., Detroit — Smith, Hinchman & Grylls, archt., 710 Washington Arcade, 3 story bakery, rein.-con., brick and steel, plain foundation, 4th Ave., to O. Misch Co., 1212 Griswold St., for Mills Baking Co., 5165 4th Ave. $40,000. Noted March 30.

Ill., Casey—Western Radiator Corp., 1 and 2 story, 150 x 260 ft. factory, rein.-con., brick and steel, to Austin Co., 208 South La Salle St., Chicago, $100,000.

Ill., Chicago—Atwell Printing and Binding Co., Sherman and Polk St., 6 story, 170 x 177 ft. plant, rein.-con., brick and steel, Prairie Ave. and 20th St., to R. F. Wilson Co., 1851 Elston Ave. $700,000. Noted April 6.

Ill., Cicero—Western Electric Co., 500 South Clinton St., Chicago, 1 story, 225 x 300 ft. shop, rein.-con., brick and steel, here, to Austin Co., 208 South La Salle St., Chicago, $350,000. Noted April 20.

Ill., Peoria—C. Welti, 518 Hamilton St., 1 story, 70 x 120 ft. garage, brick and stone, to W. Allen & Son, 929 Jefferson Bldg., $40,000. Noted March 16.

Wis., Eau Claire—Enterprise Oil Co., 401 Bay St., Chippewa Falls, 1 story, 50 x 70 ft. garage and filling station, brick, rein.-con. and tile, plain foundation, here, to E. P. Dagenhart, 601 Dewey St., $40,000.

Wis., Merrill—Trantow Bros. Garage Co., c/o A. Trantow, 1 story, 52 x 120 ft., brick, rein.-con. and tile garage and repair shop, plain foundation, 1st St., to F. H. Hetzke, Main St. $40,000.

Wis., Milwaukee—V. Donath, 329 Concordia Ave., 2 story, 60 x 80 ft. and 35 x 50 ft., brick and timber warehouse, plain foundation, Green Bay Ave., to Wassermann & Helden, 1470 6th St., $40,000.

Wis., Milwaukee—Lindsay-McMillen Co., 86 South Water St., 2 story, 40 x 100 ft., brick and concrete warehouse, plain foundation, South Water St., to S. J. Brockman, 444 Milwaukee St., $40,000.

Wis., Neenah—Jersild Knitting Co., 331 North Commercial St., 2 story, 80 x 120 ft., brick and timber warehouse, plain foundation, North Commercial St., to C. R. Meyer & Sons Co., 50 State St., Oshkosh, $45,000. Noted Dec. 22.

Wis., Wauwatosa—Forsyth Leather Co., State St., 2 story, 46 x 68 ft., brick and timber warehouse, plain foundation, State St., to Bentley Bros., 221 Grand Ave., Milwaukee, $40,000.

Minn., Minneapolis—A. Hanson and M. C. Madsen, 848 Builders Exch. Bldg., 2 story, 100 x 250 ft., rein.-con. and brick garage and sales room, 2824-30 University Ave. S. E., to Madsen Constr. Co., 848 Builders Exch. Bldg., $65,000.

Minn., Minneapolis—North Star Woolen Mill Co., 228 South Wind St., remodeling 6 story, 44 x 98 ft. factory, rein.-con. and steel, 6th Ave. S., between 1st and 2nd Sts. to Pike & Cook, 416 South 5th St., $60,000.

Minn., Minneapolis—Strutwear Knitting Co., 731 East 14th St., 2 story, 80 x 82 ft., rein.-con., brick, tile and stone factory unit, 6th St. and 11th Ave. S. to J. Leck Co., 316 South 7th St., $50,000, cost plus percentage basis. Noted Oct. 13.

Tex., Dallas—Nelson Mfg. Co., 2304 Division St., St. Louis, Mo., 2 story, 113 x 240 ft., rein.-con. warehouse, here, to Munn Constr. Co., Southwestern Life Bldg., $115,000.

Col., Denver—Super Service Motor Co., 410 Colorado Bldg., 3 story, 115 x 210 ft. garage, rein.-con., brick and terra cotta, plain foundation, 7th and Speer Blvd., to C. S. Lambie, Tramway Bldg., $300,000; cost plus percentage basis.

Cal., Burlingame—H. C. Vielbaum, c/o J. W. F. Ryan, engr., 1202 Bway., 1 story, rein.-con. garage, San Mateo Dr. near Howard Ave., to Burlingame Bldg. Co., 1202 Bway., $40,000.

Buildings

PROPOSED WORK

N. Y., Bay Shore—Hospital—South Side Hospital soon takes bids brick, steel and stone. $200,000. York & Sawyer, 50 East 41st St., New York, archts. and engrs. Noted August 18.

N. Y., Binghamton—School—Bd. Educ. having plans prepared by Bartoo & Dickerman, archts., 84 Court St., for 1st Ward School. $365,000. Noted March 16.

N. Y., Geneva—High School—Bd. Educ. plans new high school, fireproof construction. $400,000-$500,000. Architect not announced.

N. Y., Ithaca—Lodge—Masonic Building Corp., c/o J. R. Robinson, chn. building com., Lib. Bldg., plans modern lodge and clubhouse, North Cayuga and Seneca Sts. $150,000. Architect not selected.

N. Y., Jamestown—Hotel—Hotel Samuels plans 8 story, 250 room addition, fireproof construction, Cherry and 3rd Sts. To exceed $450,000. G. F. Hurlburt, mgr. Architect not selected.

N. Y., New York—Apartment—Essawea Corp., c/o E. J. Moeller, archt. and engr., 103 Park Ave., having plans prepared 5 story, 200 x 338 ft., brick, steel and stone, plain foundation, Sherman Ave., Thayer and Arden Sts. $1,200,000.

N. Y., New York — Apartment — One Twenty Nine West Washington Pl. Corp., c/o Wykoff Eng. Co., archts. and engrs., Woolworth Bldg., having plans prepared 9 story, brick, steel and stone, plain foundation, 129-135 West Washington Pl. $400,000.

N. Y., New York—Synagogue and School —Hunts Point Timud Torah, c/o Buchman & Kahn, archts. and engrs., 56 West 45th St., having plans prepared 4 story, brick and stone, plain foundation, Simpson St. $300,000.

N. Y., Perry—High School—Bd. Educ. soon takes bids addition to high school. $198,000 bonds voted. Gordon & Kaelber, 129 Sibley Blk., Rochester, archts. Noted April 6.

N. Y., Rochester—Church—East Side Presbyterian Church, c/o F. McCauley, pastor, plans addition, Parsells Ave. and Denver St. $150,000-$250,000. Architect not announced.

N. J., Camden—Lodge—B. P. O. E. 293, c/o Lackey & Hettle, archts., 5 Hudson St., having plans prepared 6 story, 40 x 165 ft. and 35 x 60 ft., brick and stone, plain foundation. $250,000.

N. J., Rutherford — Bank — Rutherford Natl. Bank having sketches made by T. M. James Co., archts. and engrs., 342 Madison Ave., New York, brick and stone, plain foundation, Park Ave. $175,000.

Pa., Erie—High School—School Dist. plans junior high school, 23rd and Raspberry Sts. $520,000. Architect not announced.

Pa., Phila.—Church—Roman Catholic Church of St. Bridget, 3685 Midvale Ave., soon takes bids 2½ story, rein.-con. and steel, plain foundation, Midvale Ave. along Schuylkill River. $250,000. G. I. Lovatt, 420 Walnut St., archt.

Pa., Pittsburgh—Office, etc.—Philadelphia Co., 6th Ave., having plans prepared, 9 story, 83 x 240 ft. brick, steel and stone office and service building, 6th Ave. $1,000,000. Private plans.

Pa., Warren—Office, Clubhouse, etc.—Eagle Lodge plans 6 story, office, clubhouse and store building, Pennsylvania Ave. $200,000. Architect not selected.

Pa., Warren—Schools—Bd. Educ. plans school on 6th Ave., also new high school. Cost between $500,000 and $750,000. Architect not selected.

Pa., Wilkinsburg—Theatre, etc.—E. E. Eaton, 733 Ross St., having plans prepared by V. A. Regamount, archt., Vandergrift Bldg., Pittsburgh, 2 story, 122 x 132 ft. concrete and steel theatre and store room building, 713-733 Penn Ave. $250,000.

Md., Baltimore—Church, etc.—Prince of Peace Church, c/o A. Sparling, Highland Park, soon receives bids for church and building, various sizes. $2,000,000. F. R. Watson, 12011 Walnut St., Phila., Pa., archt.

D. C., Wash.—Hotel—A. E. Walker Investment Co., 813 15th St., N. W., having plans prepared by R. F. Beresford, archt., Ambassador Apt., 8 and 11 story, 140 x 153 x 455 ft. hotel, Connecticut Ave. and De Sales St. $6,200,000.

Va., Norfolk—Market—City rejected bids opened April 11, 2 story, 100 x 300 ft., brick and stone, wood pile foundation, Monticello Ave., Market, Brewer and Tazewell Sts. B. F. Mitchell, Seaboard Bank Bldg., archt. Will revise specifications. Noted April 20.

N. C., Blowing Rock—Hotel—W. S. Alexander, Selwyn Hotel, Charlotte, plans hotel, here. $200,000.

N. C., Wilmington—Hotel—Hotel Corp. plans 200 room hotel, 2nd and Chestnut Sts. $700,000. R. Moore, 125 Princess St., pres.

Ga., Atlanta—Schools—Fulton Co. election May 9, to vote on $500,000 bonds for new schools.

O., Alliance—Bank—First Natl. Bank soon lets contract 2 story, brick, steel and concrete, plain foundation. $150,000. P. J. Rocker, Alliance, archt.

O., Cleveland—Apartment—P. E. Robinson, archt., Hippodrome Bldg., soon lets contract 4 story, 43 x 226 ft., brick and timber, plain foundation, Fairchild Ave., for C. A. Hansen, c/o architect. $200,000.

O., Cleveland—Commercial—See "Industrial Works."

O., Columbus—Store—Union Co., High and Long Sts., having sketches made 4 story, 45 x 100 ft. addition, West Long St. $200,000. S. M. Levy, pres.

O., Dayton—Club—Dayton Lodge 58, B. P. O. E., 3rd and Jefferson Sts., plans 5 story, rein.-con. and brick. $300,000. C. R. Althoff, secy. Architect not selected.

O., Niles—Lodge—Mahoning Lodge 394 F. & A. M. soon takes bids 4 story, 50 x 135 ft., brick and stone, plain foundation, Main St. $150,000. R. M. Keich, Warren, archt.

O., Warren—Lodge—B. P. O. E. 295 having plans prepared by R. M. Keich, archt., Warren, remodeling and building 4 story, 50 x 130 ft. brick and stone addition, plain foundation, High St. $175,000. B. Smith, chn. building com.

O., Xenia—Dormitory—Wilberforce University having plans prepared by D. Riebel & Sons, archts., Columbus, 4 story, brick and concrete. $175,000.

Buildings (Continued)

O., Youngstown—Schools—Bd. Educ. having plans prepared by P. Boucherle, archt., 610 Stambaugh Bldg., 2 story, 12 room, brick, Junior High School, Princeton St., $250,000; 2 story, 20 room brick school, Covington St., $250,000.

Ind., Marion—Church—N. M. Dunning, archt., 304 South Wabash Ave., Chicago, soon receives bids 4 story, rein.-con., brick and steel, for 1st Methodist Episcopal Church, here. $175,000. Noted Jan. 19.

Mich., Ann Arbor—Gymnasium—Michigan Athletic Assn. having plans prepared by Verner, Wilhelm & Molby, archts., 520 Book Bldg., Detroit, 1 and 2 story, concrete, brick, steel and stone gymnasium and field house, plain foundation, Ferry Field. $250,000. Noted Dec. 29.

Mich., Detroit—Community—First Presbyterian Church, c/o J. A. Vance, 33 Edmund Pl., having plans prepared for brick, steel and stone, plain foundation. $200,000. Architects name witheld.

Mich., Eloise — Hospital — Bd. Supervs. Wayne Co., County Bldg., Detroit, plans rein.-con., brick and steel hospital for insane, here. $400,000. Architect not selected.

Mich., Grand Rapids—Apartment—J. W. Wilson, 17 Campus Martius, Detroit, preparing plans 3 story, rein.-con., brick and steel, plain foundation, Union St. $200,000. Owner's name withheld.

Mich., Grosse Pointe (Detroit P. O.)—Studio—Detroit Motion Picture Corp., 608 Stroh Bldg., having plans prepared by J. G. Kastler & Co., archts., 523 Detroit Savings Bank Bldg., 2 story, 80 x 150 ft. rein.-con., steel and stone, plain foundation, Vernier Rd. $150,000.

Mich., Wakefield — Bank — First Natl. Bank having plans prepared by Huber & Nelson, archts., Menominee and Ironwood, 1 story, 40 x 92 ft. concrete, brick and stone, plain foundation. $150,000.

Mich., Ypsilanti—Hotel and Store—H. L. Stevens Co., archts., 30 North Michigan Ave., Chicago, preparing plans and takes bids about May 19, 4 story, 70 x 90 ft., Pearl and Washington Sts., for Ypsilanti Hotel Comn., c/o architects. $200,000.

Ill., Champaign — Fraternity House — Delta Kappa Epsilon Fraternity, c/o L. E. Kline, pres., 4th and John St., having plans prepared by H. Shaw, archt., 39 South State St., Chicago, 2 story, 44 x 70 ft., rein.-con., brick, stone and steel. $150,000.

Ill., Chicago—Hotel—Windermere Hotel Co. plans 12 story, 182 x 360 ft., rein.-con., brick and steel, 1614 East 56th St. $2,000,000. Rapp & Rapp, 190 North State St., archts.

Ill., La Harpe—Hospital—City Council having plans prepared by Payne & O'Hara, archts., Carthage, for Davier Hospital, 2 story, rein.-con., brick and concrete. $160,000. W. B. Kaiser, chn. building.

Ill., Maywood—High School—Proviso Twp. High School Bd. Educ. having plans prepared by J. A. Chiaro, archt., Melrose Park, 3 story, rein.-con., brick and steel addition. $250,000. E. F. Krauss, pres.

Ill., Pekin—High School—Bd. Educ., c/o W. S. Kiefer, Green Valley, having plans prepared by J. Zimmer, archt., Pekin, 2 story, 75 x 100 ft., brick, steel, stone and tile. $150,000.

Ill., Rockford—Bank—Forest City Natl. Bank, 330 West State St., plans 4 story, rein.-con., brick and steel, $150,000. R. B. Spottwood, pres. Architect not selected.

Ill., Rockford — Orphanage — Rockford Childrens Home Society, 623 North Main St., plans 5 story, brick, stone, steel and rein.-con. $400,000. B. W. Maguire, chn. building com. Architect not selected.

Wis., Kenosha—Courthouse and Jail—Kenosha Co. having plans prepared by J. Lindl, archt., 209 Wisconsin St., Kenosha, and Lesser & Schutte, associated archts., Wisconsin St., Milwaukee, 3 story, 122 x 224 ft. brick, concrete and tile, plain foundation. $600,000. C. L. Holderness, co. clk.

Wis., Milwaukee—Grade School—Joint School Dist. 16, 895 27th Ave., having plans prepared by R. Messmer & Bros., archts., 221 Grand Ave., 3 story, brick, concrete and tile, 30th Ave. and Mitchell St., Greenfield Twp., near here. $250,000.

Wis., Sheboygan—Theatre—E. A. Juul, archt., Imig Bldg., preparing plans 2 story, 70 x 240 ft., brick, rein.-con. and steel, plain foundation. $150,000. Owner's name withheld.

Ia., Davenport—Lodge—Fraternal Order of Eagles having plans prepared by Clausen & Kruse, archts., 314 Central Office Bldg., 3 story, rein.-con., brick, terra cotta and stone, 4th and Scott Sts. $250,000. A. F. Norgordt, 1850 West 3rd St., member building com.

Ia., Iowa Falls—High School—Bd. Educ. having plans prepared by Payson & Carswell, archts., Interstate Bldg., Kansas City, Mo., 3 story, rein.-con., brick, tile and stone. $265,000. C. A. Finch, secy.

Minn., St. Paul—Apartment—St. Clair Realty Co., 239 Hamm Bldg., had plans prepared by O. H. Round, archt., 301 Oppenheim Bldg., 3 story, rein.-con., brick, tile and stone, Laurel Ave. between Western Ave. and Arundel St. $200,000.

Neb., Lincoln—Office—Natl. Bank of Commerce, c/o Cashier, having plans prepared by Davis & Wilson, archts., 515 Security Mutual Bldg., 6 story, 13th and O Sts.

S. D., Sioux Falls—Schools—Bd. Educ. plans two 2 or 3 story, rein.-con., brick, stone and tile. $300,000. H. S. Hilleboe, supt. Architect not announced.

N. D., Devils Lake—Court House—Ramsey Co., c/o J. A. Kramer, aud., plans 3 or 4 story, rein.-con., brick, stone and tile. $300,000. Architect not announced.

Wyo., Casper—Junior High School—Bd. Educ. plans junior high school. $500,000. Architect not announced.

Wyo., Lander—Library—State School of Agriculture plans library. $200,000. A. Nelson, pres. Bd. Trustees. Architect not announced.

Tex., Dallas—Schools—Bd. Educ. having plans prepared by Lang & Witchell, archts., Amer. Exch. Bank Bldg., 4 rein.-con. schools. $400,000.

Col., Montrose—Court House—Montrose Co. takes bids about June 14, 3 story, stone and tile. $160,000. W. N. Bowman, Central Saving Bank Bldg., Denver, archt.

Cal., Lodi—Theatre—T. & D. Jr. Circuit, c/o A. W. Cornelius, archt., Merchants Natl. Bank Bldg., had plans prepared 70 x 160 ft., North School St. $150,000.

Cal., Los Angeles—Store and Office—I. W. Hellman Estate, Nevada Bank Bldg., San Francisco, having plans prepared by A. E. Curlett and C. Beelman, archts., 408 Union Bank Bldg., 12 story, 106 x 187 ft., steel and terra cotta, 7th and Hope Sts. $1,500,000.

Cal., Sacramento — Office — California State Life Insurance Co., having preliminary sketches made by E. C. Hemmings, archt., Ocshner Bldg., 8 or 10 story, 10th and J Sts. $1,000,000.

Cal., San Francisco—Apartment—C. A. Meussdorffer, archt., Humboldt Bank Bldg., preparing plans 11 story, rein.-con. $200,000. Owner's name withheld.

Cal., San Francisco—Apartments—Two Thousand Washington Street, Inc., c/o C. A. Meussdorffer, archt., Humboldt Bank Bldg., having plans prepared 7 story, rein.-con., Washington and Gough Sts. $500,000.

Cal., San Francisco—Store—Hale Bros., 5th and Market Sts., having plans prepared by Reid Bros., archt., 105 Montgomery St., 6 story, brick and concrete, Stevenson and 5th Sts. $150,000.

Ont., Brigden—Store—J. Armstrong Co. plans to rebuild store recently destroyed by fire. $150,000. A. D. Armstrong, mgr.

Ont., Simcoe—Schools—Bd. Educ. plans two 2 story, 10 room brick schools. $150,000.

Hawaii, Honolulu—Y. M. C. A. having plans prepared by Ripley, Davis & Fishbourne, archts., Honolulu, for addition to Y. M. C. A. $260,000.

BIDS DESIRED

N. H., Laconia—High School—May 12 by School Building Com., high school on Union Ave., P. S. Avery, 15 Ashburton Pl., Boston, Mass., archt.; adv. this issue. Noted March 9.

Conn., New Haven—Store—Starrett & Van Vleck, archts., 8 West 40th St., New York, receiving bids 5 story, 70 x 130 ft., rein.-con., brick, steel and stone, Chapel St., for Edward Malley Co., 898 Chapel St. $450,000.

N. Y., Brooklyn—Court House—May 3, by E. Riegelmann, boro pres., Boro Hall, building court house, Snyder Ave. $175,000. Private plans.

N. Y., Jamaica—Hospital—Jamaica Hospital, 371 Fulton St., 5 story, brick, steel and stone, plain foundation, Van Wyck and Ridgewood Aves. Work will be done by separate contracts under supervision of E. and G. Emery, archts. and engrs., Bible House, New York. $350,000.

N. Y., New York—Bank—May 4, by North Side Savings Bank, 3230 3rd Ave., 1 story, brick, stone and marble addition, plain foundation. $175,000. Holmes & Winslow, 134 East 44th St., archts. and engrs. Noted April 13.

Pa., Glenolden—School—May 16, by C. W. Brazer and R. M. Dickhut, archts., Crozer Bldg., Chester, and will be opened by Joint School Bds. of Glenolden and Norwood, constructing Glen-Nor High School, South Ave. bbetween Sylvan and Trites Aves., Ridley Twp.; adv. this issue.

Pa., Harrisburg—Nurses Home—May 15, by State Hospital, Front and Mulberry Sts., 1 story, 80 x 100 ft. brick and stone addition. J. A. Dempwolf, Centre Sq., York, archt.

Pa., Johnstown—School—May 10, by J. M. Young, secy. Upper Yoder Twp. School Dist., 1101-1105 First Natl. Bank Bldg., 3 story, 80 x 110 ft. brick and stone, Elm St. $150,000. H. B. Raffensperger, Nemo Bldg., archt.

Pa., Phila.—Office—L. Cahan, c/o Middle City Realty Co., Phila., receiving bids 18 story, 53 x 235 ft. rein.-con., brick, steel and stone, plain foundation, Juniper and Walnut Sts. H. Trumbauer, Land Title Bldg., archt. Noted March 9.

Pa., Sewickley—Library—May 1, by H. D. Gilchrist, archt., Conestoga Bldg., Pittsburgh, 1 story, 82 x 87 ft., Thorn and Broad Sts., here, for W. L. Clause, c/o Pittsburgh Plate Glass Co., Frick Bldg., Pittsburgh, $150,000. Noted April 6.

N. C., Greensboro—Bd. Educ. taking bids and opens same about May 5, brick, steel and stone. $150,000. Starrett & Van Vleck, 8 West 40th St., New York, archts. and engrs. Noted March 16.

Ky., Louisville—Office—See "Industrial Works."

O., Cleveland—Apartment—A. H. Oyer, Bangor Bldg., taking bids 4 story, 44 x 185 ft., brick and timber, 2064 East 96th St. $200,000. A. F. Janowitz, Permanent Bldg., archt.

O., Cleveland—Commercial and Market—Superior Lakeview Market Co., c/o G. A. Grieble, archt., Sloan Bldg., taking bids 2 story, 200 x 342 ft., brick, steel and concrete, East 120th St. and Superior Ave. $400,000. Noted Dec. 22.

O., Cleveland—Commercial and Office—W. S. Ferguson Co., archts. and engrs., 1900 Euclid Ave., taking bids 8 story, 44 x 119 ft., brick and steel, concrete pile foundation, 1765 East 12th St., for G. Zellers, 5803 Euclid Ave. $250,000. Noted March 9.

O., Cleveland—Store and Office—Walker & Weeks, archts., 1900 Euclid Ave., taking bids and open same about May 1, 4 story, 50 x 200 ft., brick, steel and concrete, concrete pile foundation, 4th St. and Euclid Ave., here, for S. S. Kresge Co., Kresge Bldg., Detroit, Mich. Noted March 9.

O., Dayton—High School—May 12, by C. Powell, clk. Bd. Educ., R. R. 12, 2 story, rein.-con. and brick, plain foundation. $150,000. E. S. Mountstephen, U. B. Bldg., archt.

O., Dayton—School—May 18, by Bd. Educ., Cooper Bldg., 2 story, 80 x 120 ft., brick and rein.-con. addition, Albany St. $150,000. Private plans.

O., East Cleveland (Cleveland P. O.)—Store and Apartment—Attenson & Attenson, 5818 Thackery Ave., Cleveland, taking bids 3 story, 48 x 117 ft., brick and timber, plain foundation, Hayden and Elsinore Aves., here. $150,000. A. F. Janowitz, Permanent Bldg., Cleveland, archt.

Ind., Muncie—Science Hall—May 9, by Indiana State Normal School, 2 story, 100 x 185 ft., brick. $165,000. C. Kibele, 335 Johnson Bldg., archt. Noted March 9.

Mich., Jackson—Office—May 3, by C. G. McCutcheon, 756 West Main St., 6 story, 66 x 98 ft. rein.-con., brick, steel and stone, plain foundation, West Main St. $175,000. Billingham & Cobb, Press Blk., Kalamazoo, archts.

Ill., Chicago—Apartment—W. P. Doerr, archt., 28 East Jackson Blvd., receiving bids 7 story, 50 x 170 ft., rein.-con., brick and steel, South Shore Dr., near 64th St., for E. Doerr, c/o architect. $500,000.

Ill., Chicago — Apartment — Dubin & Eisenberg, archts., 14 West Washington Blvd., receiving bids 3 story, 122 x 150 ft., rein.-con., brick and steel, Sheridan Rd. and Lunt Ave., for Brosen & Coine, c/o architects. $200,000.

Ill., Chicago—Apartment—Loewenberg & Loewenberg, archts., 111 West Monroe St., preparing plans and receive bids May 1, 3 story, 117 x 125 ft. rein.-con., brick and steel, Drake and Ainslie St. $150,000. Owner's name withheld.

Ill., Chicago—Apartment—A. Schuller, 4634 North Kedzie Ave., receiving bids 3 story, 125 x 136 ft., rein.-con., brick and steel, North Kedzie and Sunnyside Aves. $225,000. W. C. Peresto, 111 West Washington St., archt.

Ill., Chicago—Apartment—A. V. Teisen, archt., 4804 North Kedzie Ave., receiving bids 3 story, 97 x 125 ft., rein.-con., brick and steel, Lawndale and Polk Sts. $175,000. Owner's name withheld.

Wis., Kaukauna—High School—May 8, by School Bd. 2 story, 96 x 187 ft. and 60 x 60 ft., brick, concrete and tile, plain foundation. $175,000. Parkinson & Dockendorff, Linker Bldg., La Crosse, archts.

Wis., Racine—Arcade—May 1, by K. M. Vitzhum & Co., archts., 21 East Van Buren St., Chicago, 3 and 5 story, 70 x 240 ft., rein.-con. and brick, plain foundation, 423 Main St., for S. Klute, 434 Main St., Racine, and D. S. Komiss, 301 South State St., Chicago. $250,000. March 30.

Tex., Nacogdoches—Administration—May 6, by H. A. Turner, secy. State Bldg. Bd., c/o Texas Bank and Trust Co., Austin, 3 story, 70 x 200 ft., rein.-con. and brick at

Buildings **(Continued)**

Stephen F. Austin Normal College, here. $160,000. **W. E. Ketchum, 707 Littlefield,** Austin, archt.

Que., **Montreal**—School—Secretary Bd. School Comrs., Belmont St., receiving bids rein.-con. and steel school, Old Orchard St. $350,000. **K. G. Rea, 285 Beaver Hall** Hill, archt.

Ont., **Toronto**—Office—R. Reford Co. Ltd., 20 Hospital St., Montreal, Que., receiving bids 10 story, 53 x 100 ft. concrete, brick and steel, Bay St. $600,000. A. R. Denison, Confederation Life Bldg., archt. Noted April 20.

Ont., **Toronto**—School—W. W. Pearse, archt., 155 College St., receiving bids 2 story, 10 room, concrete, brick and steel, Manning Ave., for Bd. Educ. $175,000.

BIDS RECEIVED

Conn., **Hartford**—High School—High School Plant and Building Comn., 3 story, rein.-con., brick and steel, Greenfield and Ridgefield Sts., from H. Wales Lines Co., 134 State St., Meriden, $1,287,834; C. H. Cunningham & Sons Co., Lynn, Mass., $1,291,000; A. E. Stephens Co., 318 Main St., Springfield, Mass., $1,318,000. Noted April 6.

Cal., **San Francisco**—Home—Salvation Army, Valencia and McCoppin Sts., 9 story, brick and concrete, McAllister St. near Jones St., from R. McLeran & Co., Hearst Bldg., $157,700; Vukicevich and Bagge, 180 Jessie St., $164,000; Barrett & Hilp, 918 Harrison St., $185,000. Noted April 20.

Cal., **San Francisco**—School—City and San Francisco Co., 2 story, rein.-con., Valencia St. near 23rd St., general contract from Anderson & Ringrose, 320 Market St., $302,382, L. J. Cohn, 1047 Anza St., $314,445, Clinton Constr. Co., 140 Townsend St., $321,700; plastering from J. Greenback, 180 Jessie St., $46,267. Noted March 30.

CONTRACTS AWARDED

N. Y., **Bolton**—Hotel—Sagamore Hotel, brick, steel and stone, plain foundation, to E. V. R. Stires, 17 East 95th St., New York. $300,000.

N. Y., **Brooklyn** — Apartment — Berrows Realty Co., c/o McCarthy & Kelley, archts. and engrs., 16 Court St., 6 story, brick, steel and stone, plain foundation, Ocean Ave., by day labor. $250,000.

N. Y., **Brooklyn** — High School — Bd. Educ., 500 Park Ave., New York, Thomas Jefferson High School, Dumont Ave. from Sheffield to Pennsylvania Aves., here, to G. Colon Co., 81 East 125th St., New York, $1,266,621. Noted March 30.

N. Y., **Brooklyn**—School—Parish of Our Lady of Guadalupe, c/o McCarroll, Murphy & Lehman, archts. and engrs., 852 Monroe St., 2 story, brick, steel and stone, plain foundation, 73rd St. and 15th Ave., to W. Flanagan, 118 East 28th St., New York, $200,000.

N. Y., **New York**—Apartment—W. Crawford, 7 East 42nd St., 12 story, brick, steel and stone, plain foundation, 800 5th Ave., by day labor. $600,000. J. E. R. Carpenter, 598 Madison Ave., archt. and engr.

N. Y., **New York**—Apartment—Loring Constr. Co., c/o E. Roth, archt. and engr., 119 West 40th St., two 6 story, brick and steel, plain foundations, 162nd St. and Wadsworth Terrace, by day labor. $150,000 each.

N. Y., **New York**—Apartment—Hudson Builders Corp., c/o Springsteen & Goldhammer, archts. and engrs., 32 Union Sq., 5 story, brick, steel and stone, plain foundation, 601 West 109th St., by day labor. $175,000.

N. Y., **New York** — Apartment — One Twenty Five East 63rd St. Corp., c/o Sugarman & Hess, archts. and engrs., 16 East 43rd St., 9 story, brick, steel and stone, plain foundation, 125-135 East 63rd St., by day labor. $350,000.

N. Y., **New York**—Apartment—Webster Apartments, c/o Parish & Schroeder, archts. and engrs., 278 Madison Ave., 13 story, 100 x 120 ft., brick, steel and stone, plain foundation, 413 West 34th St., to E. Corning Co., 145 East 45th St. $750,000.

N. Y., **New York**—Apartment and Store —C. I. Weinstein, c/o Margon & Glaser, archts. and engrs., 2806 3rd Ave., 5 story, brick, steel and stone, plain foundation, 163rd St. and Tinton Ave., by day labor. $200,000.

N. Y., **New York**—Hotel—Manger Bros., Hotel Netherland, 5th Ave. and 59th St., 13 story, brick, steel and stone, plain foundation, to O'Day Constr. Co., 1639 Bway., $800,000.

N. Y., **New York**—School—Crow, Lewis & Wick, archts. and engrs., 200 5th Ave., 5 story, 33 x 100 ft., brick, steel and stone, plain foundation, 50 East 62nd St., to Fountain & Choate, 110 East 23rd St., for Browning-Jones Realty Co., c/o architects. Noted March 30.

N. Y., **Williamsville**—High School—Bd. Educ. general contract for new high school, to Metz Bros., 1295 Fillmore Ave., Buffalo, $122,240. Noted April 20.

N. J., **Newark**—School—Bd. Educ., City Hall, Broad St., steel and stone, Abington Ave., to D. W. McKee Constr. Co., 142 1st St. $250,000. Noted April 6.

N. J., **Plainfield**—Jallade, Lindsey & Warren, archts. and engrs., 129 Lexington Ave., New York, brick and stone Y. M. C. A. building, here, to Milne & Smith, Plainfield, $200,000.

Pa., **Pittsburgh**—Club—University Club, 4439 Bigelow Blvd., 8 story, 113 x 113 ft. brick, limestone and steel, Tennyson Ave., to W. T. Grange Constr. Co., Keenan Bldg. Noted March 23.

Pa., **Uniontown**—Store—A. Kahn, archt., 1000 Marquette Bldg., Detroit, and H. W. Altman, associated archt., Uniontown, 8 story, 55 x 76 ft. Main and Gallatin Aves., here, to W. M. Sutherland Constr. Co., Commerce Bldg., Erie, for Aaron Co., Main St., Connellsville. $400,000. Noted March 9.

D. C., **Wash.**—Science Hall and Office—Natl. Research Council, 1201 16th St., N. W., science hall and office building, 22nd and B Sts., N. W., to T. T. Wills, 286 5th Ave., New York, $2,000,000. Noted March 30.

Va., **Richmond**—Bank and Office—Richmond Trust Co., 7th and Main Sts., 7 story, brick, steel and stone, plain foundation, to J. T. Wilson, Mutual Bldg., Richmond, $700,000.

Va., **Richmond**—Store—Miller & Rhodes, Inc., 6th St., brick, steel and stone addition, plain foundation, 6th St., to J. T. Wilson, Mutual Bldg. $1,000,000. Noted March 9.

W. Va., **Fairmont**—Theatre—West Virginia Amusement Co., 1 story, 45 x 200 ft., Main St., to Valley Eng. Corp., Fairmont. $200,000. Noted June 9.

S. C., **Charleston**—Hotel—Francis Marion Hotel Co., 12 story hotel, to J. W. Cowper, Oliver Bldg., Pittsburgh, Pa., $1,000,000. This corrects report in June 9 issue.

O., **Canton—Church**—Howell & Thomas, archts., 4500 Euclid Ave., Cleveland, 1 story, 66 x 118 ft., brick, steel and stone, plain foundation, here, to N. Miller, Canton, for St. Pauls Episcopal Church, Cleveland Ave. and 5th St. S. W. Noted March 9.

O., **Canton**—Theatre—A. H. Abrams Co., 225 East Tuscarawas St., 1 story, 66 x 200 ft. Tuscarawas St., E., to Hunkin-Conkey Constr. Co., New Century Bldg., Cleveland.

O., **Cleveland**—Apartment—S. T. Bates, 2029 East 115th St., 2 story, 30 x 200 ft., brick and timber, plain foundation, Mayfield Rd., to J. M. Marsh, 11501 Mayfield Rd. $150,000.

O., **Cleveland**—Apartment—A. M. Gordon, 207 Schofield Bldg., 3 story, 107 x 148 ft., brick and timber, plain foundation, Eddy and Hartshorn Rds., to H. Tenenbaunn, 9506 Piedmont Ave., $200,000.

O., **Cleveland**—Store and Apartment—A. Horwitz, Ulmer Bldg., 3 story, 78 x 142 ft., brick and timber, Euclid Ave. and Alcoy Rd., to Kravitz & Yokelson, 991 Parkwood Dr. Noted Feb. 23.

O., **Cleveland Heights**—(Warrensville, P. O.)—Apartment—I. Koslen, 3167 Euclid Heights Blvd., masonry contract 4 story, 86 x 105 ft., brick and steel, plain foundation, 2100 Surrey Rd., to Winikur Bros., 2280 East 93rd St., Cleveland, $150,000.

O., **Dover**—Bank—Walker & Weeks, archts., 1900 Euclid Ave., Cleveland, 2 story, 65 x 124 ft., brick and steel, here, to E. Harris, Canton, for Reeves Banking & Trust Co. Noted March 2.

O., **Germantown**—School—Bd. Educ. 2 story, 92 x 152 ft. school, to Anderson & Hunicutt, Union City, Ind., $122,980. Noted March 30.

O., **Sebring**—High School—W. G. Eckles, archt., Lawrence Savings & Trust Bldg., New Castle, Pa., remodeling and 2 story addition, here, to M. Katzman & Son, 906 Home Savings & Loan Bldg., Youngstown. $83,000. Noted April 6.

O., **Silica** (Sylvania, P. O.)—Office—See "Industrial Works."

O., **Wilmington**—High School—Bd. Educ. 2 story, addition and remodeling auditorium and heating plant, to A. P. Eveland, Wilmington, $78,515. Noted March 30.

Mich., **Detroit** — Apartment — M. M. Robinson, Real Estate Exch. Bldg., 3 story, brick and steel, brick foundation, Jefferson Ave., masonry contract to D. Fidler, 632 Melbourne Ave. $200,000. Noted March 2.

Ill., **Chicago**—Office—Davidson & Weiss, archts., 53 West Jackson Blvd., 10 story, 100 x 100 ft., rein.-con., brick and steel, Harrison and Clark Sts., to Lanquist & Illsley Co., 1100 North Clark St., for Harrison Clark Bldg. Corp., c/o architects. $500,000. Noted March 30.

Ill., **Chicago**—Office—C. S. Frost, archt., 105 South La Salle St., 3 story, 71 x 135 ft., rein.-con., brick and steel, 1400-6 West Washington St., to A. Brundage, 110 South La Salle St., for Public Life Insurance Co., 108 South La Salle St. $175,000. Noted March 30.

Wis., **Milwaukee** — Church — Evangelical Lutheran Church of Ascension, 1168½-25th Ave., 1 and 2 story, 62 x 114 ft. church and sunday school, brick tile and concrete, plain foundation, Layton Blvd., to Bentley Bros., 221 Grand Ave. Noted Feb. 16.

Wis., **Neenah**—Bank—Natl. Manufacturers Bank, 109 West Wisconsin Ave., 2 story, brick, stone and concrete, plain foundation, to C. R. Meyer & Sons Co., 50 State St., Oshkosh, $150,000. Noted March 30.

Minn., **Minneapolis**—Sales—See "Industrial Works."

Minn., **Minneapolis**—School—Bd. Educ., two 2 story, 40 x 99 ft. wings, rein.-con., brick, tile and stone, Vincent Ave. S. and 49th St., to Colwell-Long Co., 511 South 3rd St., $71,000. Noted March 23.

Minn., **St. Paul**—Apartment—M. F. Partridge, 1125 Ashland Ave., 3 story, 130 x 150 ft., rein.-con., brick, tile and stone, Lexington Ave. between Laurel and Ashland Aves., to W. Stevens, 302 Pittsburgh Bldg. $150,000.

Mo., **Kirksville**—School—Northeast Missouri State Teachers College, 3 and 2 story gymnasium and auditorium, brick, to S. E. Schultz, Chillicothe, $216,342; heating and power work, to J. Gilmore Plumbing Co., 13 North 10th St., St. Louis, $40,200. Noted Nov. 17.

Mo., **Springfield** — Hospital — R. C. Stephens, archt., Frisco Bldg., St. Louis, 3 story, rein.-con., brick and stone, here, to W. MacDonald Constr. Co., 816 Olive St., St. Louis, for St. Louis & San Francisco Ry. Noted Feb. 9.

Wash., **Seattle**—High School—Bd. Educ. building James A. Garfield High School, 3 story, 200 x 260 ft., rein.-con., and brick, 24th Ave. and East Jefferson St., to Dougan & Chrisman, Hinckley Blk., $452,374. Noted April 13.

Cal., **San Francisco**—Apartment—C. A. Meussdorffer, archt., Humboldt Bank Bldg., completing plans 9 story, rein.-con., California and Gough Sts. $175,000. Work will be done by day labor. Owner's name withheld.

Ont., **Guelph**—School—Bd. Educ. 2 story, 100 x 285 ft. technical school, concrete, brick and stone, Paisley St., to Yates Constr. Co., 17 Main St. E., Hamilton, $262,524.

Federal Government Work

PROPOSED WORK

Virginia—Dredging—U. S. Government having preliminary plans prepared dredging Norfolk Harbor Channel from Navy Yard to Old Point Comfort, $300,000 to $500,000; 2.5 mi. Alligator-Pungo River cut, Hyde Co., North Carolina, $250,000 to $400,000. Address J. C. Oakes, ch. of U. S. Army Engrs., 5th Dist., Norfolk.

Va., **Norfolk**—High Pressure Steam Main —Spec. 4617—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans high pressure steam main, here.

Va., **Yorktown**—Alternators, etc.—Spec. 4612—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install alternators and auxiliary equipment, here.

North Carolina—See "Virginia."

Ore., **Astoria**—Destroyer Base, etc.—Spec. 4615—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans destroyer base, incl. piers, bulkhead, breakwater and dredging, here.

California — M. A. Benedict, forest superv., seeking an appropriation of $5,000 from Madera Co. to which Government will add $20,000 to finance construction 26 mi. Crane Valley Rd. from Crane Valley to Beasore and Clover Meadows.

Cal., **San Diego**—Lighting System—Spec. 4614—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans street lighting system at Naval Hospital, here.

Cal., **San Diego**—Storehouse—Spec. 4618 —Bureau Yards & Docks, Navy Dept., Wash., D. C., plans 1 story storehouse, here.

BIDS DESIRED

Pa., **Phila.**—Dredging—May 18, U. S. Engineer, Room 815, Witherspoon Bldg., 1321 Walnut St., dredging in Delaware River, on Liston Range.

Pa., **Tobyhanna**—Buildings, etc.—May 11, by Constructing Quartermaster, buildings, roads, water system, etc., Camp Lieutenant Henry H. Houston, 2nd; adv. this issue.

D. C., **Bellevue**—Piping—Spec. 4544—May 10, by Bureau Yards & Docks, Navy Dept., Wash., suction and distribution piping at laboratory, here.

La., **New Orleans**—Electrical Equipment —May 11, by U. S. Engineer, 329 Customhouse, turbo generator, motor, switchboard, etc., for U. S. pipe line dredge "Gulfport;" adv. this issue.

Federal Government (Continued)

Mont., Billings—Partitions, etc.—May 17, by Treas. Dept., Wash., D. C., **new partitions, etc., in U. S. Post Office, here. J. A. Wetmore, acting superv. archt.; adv. this issue.**

Mont., Great Falls—Canals, etc.—June 6, by U. S. Recl. Serv., Great Falls, canals and structures on Sun River Project. A. P. Davis, dir.; **adv. this issue.**

Cal., Point Loma—Garage, etc.—Spec. 4599—Bureau Yards & Docks, Navy Dept., Wash., D. C., 1 story, frame garage, at Naval Radio Station, here, and 1 story, coal and store shed at Naval Radio Station, Imperial Beach, to Miller & Eddleman, 401 Bancroft Bldg., San Diego, $2,223 (60 days). Noted March 30.

Cal., San Diego—Roads and Walks—Spec. 4602—Bureau Yards & Docks, Navy Dept., Wash., D. C., roads and walks at Naval Base Training Station, here, to Riley & Peterson, Loma Portal, **$43,224.** Noted April 13.

BIDS RECEIVED

N. Y., Amagansett—Quarters—Spec. 4536—Bureau Yards & Docks, Navy Dept., Wash., D. C., quarters at Naval Radio Station, here, (1) work complete, from Pearce Bros., 220 West 42nd St., New York, (1) $19,784 (100 days); W. F. Martins, 112 Cutler Bldg., Rochester, (1) $22,660 (125 days), (2) $11,500 (120 days); G. E. Ward, 417 East 34th St., New York, (1) $24,843 (90 days), (2) $10,386 (75 days), (3) $15,-457 (90 days), (4) $20 and $3 per ft. Noted April 6.

N. Y., New York—Storage Shed—Spec. 4589—Bureau Yards & Docks, Navy Dept., Wash., D. C., storage shed on Pier H, at Navy Yard, here, (1) work complete from W. F. Martins, 112 Cutler Bldg., Rochester, (1) $15,178 (130 days), (2) $257 (10 days), (3) $544 (2 days), (4) $15,678 (130 days), (5) $560 (2 days); Penn Bridge Co., 4029 4th Ave., Beaver Falls, Pa., (1) $16,120 (90 days), (2) $400, (3) $700, (4) $17,620, (5) $775 (2 days); Belmont Iron Wks., 2215 Washington Ave., Phila., Pa., (1) $16,-636 (90 days), (2) $800, (3) $450, (4) $18,-136, (5) $500. Noted March 30.

Cal., San Diego—Roads and Walks—Spec. 4606—Bureau Yards & Docks, Navy Dept., Wash., D. C., roads and walks at hospital, here, from G. W. Cushing, 2005 Roosevelt Ave., Richmond, 34,063 (75 days); Wright & Dorin, 345 Spreckles Bldg., $40,000; R. H. Travers, 3144 Arcade Bldg., Seattle, Wash., $40,348 (70 days). Noted April 6.

Samoa, Tutuila — Radio Towers — Spec. 4600—Bureau Yards & Docks, Navy Dept., Wash., D. C., radio towers at Naval Station, here, (1) work complete from W. F. Martens, 112 Cutler Bldg., Rochester, N. Y., (1) $32,900 (225 days), (2) $69,935 (260 days), (3) add (1) $0.077, deduct $0.065, (2) $0.072, deduct $0.06; D. Zane Co., Woolworth Bldg., New York, (1) $38,025 (210 days), (2) $72,478 (210 days), (2) add (1) $0.0565, deduct $0.035, (2) add $0.053, deduct $0.035; Pittsburgh-Des Moines Steel Co., Curry Bldg., Pittsburgh, Pa., (1) $50,980 (235 days), (2) $96,380 (235 days), (3) add $.18, add $0.10, (2) add $12, deduct $0.08. Noted March 23.

CONTRACTS AWARDED

Mass., Boston—Alterations—Treas. Dept., Wash., D. C., alterations to U. S. Appraisers Stores, here, to J. F. Fitzgerald, 294 Washington St., $15,111. Noted March 23.

Mass., Boston—Equipment—Spec. 4583—Bureau Yards & Docks, Navy Dept., Wash., D. C., coal handling equipment at Navy Yard, here, to A. Pope, 4722 15th St., N. W., Wash., D. C., $40,200 (120 days). Noted April 20.

La., New Orleans—Dredge Pipe—U. S. Engineer, 329 Custom House, steel dredge pipe with pontoons for U. S. Dredge "Gulfport," to J. H. Murphy Iron Wks., 643 Magazine St., $30,710. Noted March 16.

Cal., San Diego—Distributing System—Spec. 4610—Bureau Yards & Docks, Navy Dept., Wash., D. C., electrical distributing system at Naval Base, here, to W. A. McNalley & Co., 106 West Colorado St., Pasadena, $34,400, (90 days). Noted April 6.

Miscellaneous

PROPOSED WORK

Elimination of Grade Crossing—Phila., Pa.—City and Pennsylvania R.R., Broad St. Sta., plans to eliminate grade crossing and build bridge, etc. $5,000,000. I. W. Phillips, City Hall, city engr. E. B. Temple, Broad St., railway engr.

Elimination of Grade Crossing—Saegerstown, Pa.—State, Crawford Co., Village and Northwestern Pennsylvania Ry. Co., 159 Chestnut St., Meadville, had plans made for eliminating grade crossing here. $37,162. Address Northwestern Pennsylvania Ry. Co.

Transmission Line — Titusville, Pa. — Titusville Light & Power Co. plans 17 mi. 23,000 volt high tension transmission line from here to Oil City.

Grade Elimination—Nashville, Tenn.—State Hy. Dept. and Nashville, Chattanooga & St. Louis Ry., 1000 Broad St., plans grade elimination, (underpasses to be concrete) at La Vergne, Murfreesboro, and on **State Highway 47. $50,000.** H. McDonald, ch. engr.

Underground Parking Space—Columbus, O.—City plans 1,120 x 80-140 ft. underground parking space to accommodate 600 cars. **$400,000.** R. H. Simpson, City Hall, engr.

Jetties—Lakewood (Cleveland, P. O.), O.—Plans jetties for protection of bathing beach along Lake Erie. **$38,250.** E. A. Fisher, City Hall, engr.

Grader — Chippewa Falls, Wis. — Chippewa Co. preparing specifications and soon takes bids large road grader with scarifier attachment. P. O. Lokrantz, Chippewa Falls, engr.

Equipment — Ladysmith, Wis. — Fame Canning Co., 465 West 22nd St., Chicago, having plans prepared for equipment incl. 2 new tubular boilers and 70 ft. steel stack. N. Ritley, local mgr.

Hydro-Electric Development—Boone, Ia.—Election soon to vote on $250,000 bonds for hydro-electric development across Des Moines River. Burns & McDonnell, engrs. Interstate Bldg., Kansas City, Mo.

Sub-Station—Yuba City, Cal.—Pacific Gas & Electric Co., 445 Sutter St., San Francisco, preparing plans for substation, O'Banion Corners, here. **$70,000.** Private plans.

Electric Light and Power System—Komoka, Ont.—Town and Delaware Twp. having surveys made for electric lighting and power distribution system. **$50,000.** A. Purcell, 190 University Ave., Toronto, engr.

Drilling—St. Thomas, Ont.—D. Barr, St. Thomas, plans extensive drilling for oil and gas. **$30,000.** Prices wanted on all materials and equipment.

BIDS DESIRED

Pier—Brooklyn, N. Y.—May 1, by Comr. Docks & Ferries, iPer "A," North River, New York, extending pier and constructing dumping board between 51st and 52nd Sts., South Brooklyn, here.

Steam Roller—Ogdensburg, N. Y.—Bd. Pub. Wks. taking bids 10 ton steam roller with scarifier attachment. D. J. Chrichton, clk.

Crushed Stone, etc.—St. George, N. Y.—May 3, by M. J. Cahill, pres. Richmond Boro, Boro Hall, furnishing and delivering crushed stone, bituminous material, asphaltic cement, sand and gritt.

Culverts—Long Branch, N. J.—May 9, by Bd. City Comrs. culverts over Edwards Brook and Long Branch Brook also 2 pipe lines from 2nd Ave., etc. E. F. Lawyer, clk.; adv. this issue.

Vitr. Paving Brick—Ebensburg, Pa.—See "Streets and Roads."

Marginal Wharf—Camden, N. J.—May 12, by G. W. Bradley, chn. Harbor Comn., Room 11, City Hall, 395 ft. concrete and timber marginal wharf, north of Spruce St.; adv. this issue.

Concrete Mixer, etc.—Huntington, W. Va.—J. Ullom in market for new or second hand ⅜-yd. concrete mixer, machinery for excavating, several motor trucks with trailers, road rollers, several road scrapers, road tractor and road forms.

Combustion Engine, etc.—Pablo Beach, Fla.—May 5, 150 k.w. direct connected internal combustion engine, generators, etc., erected on town's foundation; also for 22,000 volt transmission line from here to South Jacksonville with 2 sub stations. C. H. Mann, chn. bond trustees.

Sprinkling System—New Orleans, La.—May 11, by Bd. Administrators, Charity Hospital, Tulane Ave., equipping and installing sprinkling system in Milliken Memorial sisters' building, laundry and machine shops, white female building, contagious building, colored female building, nurses' home, internes' quarters and warehouse. $25,000.

Road Scraper — Cleveland, O. — Kane-Graney Motor Co., West 25th St. and Memphis Ave., taking bids 2 wheel road scraper.

Steel, etc.—Silica (Sylvania P. O.), O.—Sandusky Cement Co., Engineers Bldg., Cleveland, taking bids 600 ton steel and foundation for 1 story, plant, here. Total $1,000,000. W. B. Rawson, Engineers Bldg., Cleveland, archt. and engr. Noted March 9 under "Industrial Works, Toledo."

Gravel Screen, etc.—Plymouth, Ind.—Comrs. Marshall Co., receiving bids for 1 portable gravel screen outfit, complete with power, capable 10 yd. per hr., and 1 portable dragline outfit, complete with power, capacity ½ yd.

Road Oil—Kalamazoo, Mich.—May 2, by Bd. Rd. Comrs. Kalamazoo Co., 50,000 to 90,000 gal. road oil. L. J. Wykkel, co. engr.; adv. this issue.

Subways—Milwaukee, Wis.—May 1, by Chicago & Northwestern Ry., 226 West Jackson Blvd., Chicago, 2 rein.-con. subways and 45,000 cu.yd. excav. on 1st Ave., section, representing about ⅓ of total work in connection with track elevation and depression in Layton Park Dist. Total. $1,500,000. J. S. Pole, c/o owner, assistant engr. of track elevation.

Road Oil, etc.—Sleepy Eye, Minn.—May 2, for 3 carloads road oil, 50-60 grade, containing 25,000 gal. each; storage tanks, 10,-000-12,000 and 14,000 gal. capacity. A. J. Thomas, clk.

Machinery and Equipment—St. Joseph, Mo.—City receiving bids machinery and equipment for asphalt plant. $25,000. W. K. Seitz, City Hall, engr.

Crude Oil—Fresno, Cal.—May 5, by Bd. Supervs. Fresno Co., furnishing and delivering 100,000 bbl. crude oil, running not less than 65% asphalt for delivery at rate of 6 cars a day; also for 5,800 bbl. 90% asphaltic oil. C. P. Jensen, co. engr.

Portland Cement—Napa, Cal.—May 9, by Bd. Supervs. Napa Co., furnishing and delivering 1,000 bbl. portland cement; 700 bbl. delivered to St. Helena and 300 to Napa. O. H. Buckman, surv.

Asphalt—Montreal, Que.—May 1, by Executive Com., 3,200 ton asphalt. L. O. Pion, purch. agt.

Cement—Guelph, Ont.—Receiving bids 20,000 bbl. cement, for paving. F. McArthur, City Hall, engr.

Telephone Equipment—London, Ont.—Bell Telephone Co., 435 Clarence St., receiving bids for telephone equipment to repair damage caused by storm. $35,000. C. H. Beard, mgr.

BIDS RECEIVED

Asphalt Road Oil, etc.—Brooklyn, N. Y.—E. Riegelmann, boro pres. Boro Hall, opened bids April 19, furnishing and delivering 200,000 gal. asphalt road oil, from **Texas** Co., 17 Battery Pl., New York, $0.0429 per gal., Standard Oil Co. of New York, 26 Bway., New York, $0.044, Warner Quinlan Co., 79 Wall St., New York, $0.05238; 150,000 gal. tar road surfacing material, from Barrett Co., 40 Rector St., New York, $0.0929 per gal., F. J. Lewis Mfg. Co., $0.094. Noted April 13.

Borings—Brooklyn, N. Y.—Bd. Estimate, City Hall, New York, opened bids April 21, borings along line of proposed tunnel across narrows extending from vicinity of 66th St. and 4th Ave., here, under New York Bay to Manor Rd. and Forest Ave., Boro of Richmond, from Pennsylvania Drilling Co., 17 Battery Pl., New York, $27,720; P. J. Healey, 480 Lexington Ave., New York, $32,222; A. N. Spencer & Son, Inc., Pier 11, North River, New York, $36,-660. Noted April 6.

Steel Screw Ferry Boats—New York, N. Y.—G. A. Whalen, comr. Plant & Structures, Municipal Bldg., opened bids April 20, building steel screw ferry boats, from Staten Island Shipbuilding Corp., 3075 Richmond Terrace, Port Richmond, (1) $1,103,900, (2) less $2,100, (3) less $4,300, (4) less $6,750, (5) less $1,639,900, (6) less $2,100, (7) less $4,300, (8) less $6,750; Tebo Yacht Basin, 25 Bway., (1) $1,160,000, (2) less $6,000, (3) less $800, (4) less $7,000, (5) less $1,730,000, (6) less $6,000, (7) less $700, (8) less $7,000. Noted April 6.

Pier—Phila., Pa.—G. F. Sproule, dir. Dept. Wharves, Docks & Ferries, 550 Bourse Bldg., opened bids April 18, superstructure of Girard St. Pier 3 and substructure and superstructure of Girard St. Pier 5, North Delaware River, from Triest Contg. Co., Penna Bldg., $1,812,218; J. S. Rodgers, 3307 North Park St., $1,898,000; Hughes-Foulkrod Co., Commonwealth Bldg., $1,927,000. Noted March 30.

CONTRACTS AWARDED

Subway—Brooklyn, N. Y.—Transit Comn., 49 Lafayette St., New York, constructing Sect. 6-A, Route 8, part of 14th St.-Eastern Rapid Transit R.R., here, to Joslin Constr. Co., Inc., 354 West 24th St., New York, $1,149,196. Noted April 6 under "Railways."

Drilling Gas Wells—Buffalo, N. Y.—Dept. Pub. Affairs, 332 Ellicott Sq., drilling 1,100 ft. medina well, 8¼ in. bore, labor only, to J. T. O'Mara, Buffalo, $2,585; 3,500 ft. well without casings and fittings, to Buffalo Drilling Co., Buffalo, $10,725. Noted Feb. 9.

Entrance, etc.—New York, N. Y.—Transit Comn., 49 Lafayette St., entrance to 168th St. Sta. of Manhattan-Bronx Rapid Transit R.R., to Holbrook, Cabot & Rollins Corp., 52 Vanderbilt Ave., $283,332; station finish work for part of 14th St.-Eastern Rapid Transit R.R., to J. Schlesinger, Inc., 259 West 30th St., $223,000. Noted April 13.

Entrance, etc.—New York, N. Y.—Rapid Transit Comn., 49 Lafayette St., entrance

Miscellaneous (Continued)

to Borough Hall Sta. through Isle of Safety, to C. J. Adams & Son, 308 West 20th St., $14,459; Union Sq. Passageway, to G. A. Colon & Co., 81 East 125th St., $58,994. Noted April 20.

Fuel Oil—New York, N. Y.—J. Miller, pres. Manhattan Boro, Municipal Bldg., furnishing and delivering 75,000 gal. fuel oil, to Standard Oil Co. of New York, 26 Bway., $5,625. Noted April 6.

Ice Skating Rink—New York, N. Y.—Iceland Co., c/o C. B. Comstock, archt. and engr., 110 West 40th St., 3 story, 200 x 225 ft., ice skating rink, brick and concrete, concrete pile foundation, 242 West 53rd St., to Turner Constr. Co., 244 Madison Ave., $200,000.

Special Work—New York, N. Y.—Transit Comn., 49 Lafayette St., supply of special work and other track materials for use in construction of part of Jerome Ave. Yard of 7th Ave. Lexington Ave. Rapid R.R., to Bethlehem Steel Products Co., 111 Bway., $36,555. Noted April 20.

Penstock—Watertown, N. Y.—Northern New York Utilities Inc., 58 Public Sq., ½ mi. high pressure penstock at Browns Falls, to Chicago Bridge & Iron Wks., 30 Church St., New York, $100,000. Noted April 13 under "Dams."

Bituminous Concrete, etc.—Trenton, N. J.—State Hy. Comn. furnishing 1,881 ton FA-BC1 bituminous concrete, to Standard Bitulithic Co., 50 Church St., New York, $48,360; 600 ton ameisite to Genl. Crushed Stone Co., Phila., $5,100; 95 ton FA-BC1 bituminous concrete, and 1,285 ton sheet asphalt, to J. J. Barrett Co., 147 Lafayette St., $2,193 and $24,439 respectively; 7,910 ton crushed slag, to Duquesne Slag Products Co., Commercial Trust Bldg., Phila., $8,999; 2,670 ton crushed slag, to Natl. Slag Co., Neidener Bldg., Phila., $2,670; 325 ton crushed slag, to Phila. Slag Co., Pennsylvania Bldg., Phila., $406; 72,515 gal. hot asphalt, to A. Keyes, Woodbridge, $7,946; 6,865 ton crushed trap rock, to Salmon Bros., Main St., Netcong, $11,099; 8,401 ton trap rock, to W. A. Ferguson, Totowa St., Little Falls, $12,281; 2,840 ton crushed limestone, to Smith Bros. & Co., Hackettstown, $5,052; 10,135 ton crushed trap rock, to C. Sebolt, 10 Richmond St., New Brunswick, $17,767; 406,990 gal. cold tar, to T. Tobish, Amer. Mechanic Bldg., $41,906; 3,165 gal. cold tar, to Barrett Co., 40 Rector St., New York, $363; 84,975 gal. asphaltic cement, to Barber Asphalt Co., Land Title Bldg., Phila., $14,420; 3,357 ton ameisite, to North Jersey Ameisite Co., Morristown, $36,459; 15,380 ton crushed trap rock, to Pennington Trap Rock Co., 1539 Fiebut St., Phila., $25,701; 31,485 ton crushed trap rock, to Delaware River Quarry & Contg. Co., Lambertville, $42,964; 1,240 ton crushed trap rock and limestone to Genl. Crushed Stone Co., Drake Bldg., Easton, Pa., $1,644; 14,401 ton crushed trap rock, to Morris County Crushed Stone Co., 15 South St., Morristown, $23,250; 19,470 ton crushed trap rock, to Mile Biting Co., Allentown, Pa., $21,721; 4,338 ton crushed trap rock, to Birdsboro Stone Co., Land Title Co., Phila., $6,038; 10,926 ton crushed trap rock, to F. R. Upton, Inc., 9 Clinton St., Newark, $17,947; 1,281 ton crushed trap rock, to M. I. Demarest, Main St., Sewaren, $2,376. Noted March 30.

Bituminous Material and Asphalt—Phila., Pa.—Bituminous material to B. Foster, South Penn Sq., $24,000, asphalt to Eastern Paving Co., Colonial Trust Bldg., $80,000.

Cement—Atlanta Ga.—Fulton Co. Pub. Wks. Comn., 250,000-500,000 gal. asphaltic cement, to S. Finley, 210 West North Ave., $0.1299 per gal.

Bulkhead—Miami, Fla.—For bulkhead wall, 1,300 lin. ft. steel sheet piling and 1,300 lin.ft. wood sheet piling to Comer & Ebsary, Miami, $3.26 per ft. and $0.86 per ft. respectively.

Granite Blocks, etc.—New Orleans, La.—Bd. Port Comrs. of New Orleans, Court Bldg., 38,000 small granite blocks and 1,000 lin.ft. granite curbing, to J. Bartley, Canal Commercial Bldg., $4,890.

Bituminous Cold Patch Material—Kentucky—State Hy. Comn., Frankfort, furnishing 10,000 gal. bituminous cold patch material, to S. F. Troxell Co., 146 North 3rd St., Louisville, $1,500. Noted March 16.

Grandstand—Akron, O.—Summit Co. rein.-con. grandstand, to A. W. Morrette, 945 Beardsley St., $45,000.

Breakwater—Milwaukee, Wis.—Park Bd. 560 ft. rubblemound breakwater from present crib to Russell Ave., to E. E. Gillen Co., 288 East Water St., $119,000. Noted April 13.

Asphalt Plant—Niagara Falls, Ont.—City, asphalt paving plant to Barber Asphalt Co., 450 East Delavan Ave., Buffalo, N. Y., $14,573. Noted Feb. 2.

SUBWAY—BROOKLYN, N. Y.

Bids were opened by Transit Comn., 49 Lafayette St., Apr. 3, (lowest 3) for constructing Sect. 6-A, Route 8, part of 14th St.-Eastern District Rapid Transit R.R., from (A) Joslin Constr. Co., Inc., 354 West 24th St., (awarded contract); (B) W. H. Brown Constr. Co., 52 Broadway; (C) F. L. Cranford, Inc., 149 Remsen St., Brooklyn. The unit bids were as follows:

	A	B	C
78,000 cu.yds. earth excavation above M.H.W.	$4.20	$4.00	$5.40
6,700 cu.yds. earth excavation below M.H.W.	5.50	6.00	5.40
2,000 cu.yds. earth excavation above and below M.H.W. for sewers	5.00	5.00	5.40
800 front ft. underpinning buildings less than 7 stories	36.00	40.00	50.00
600 front ft. maintaining, protecting and securing buildings	20.00	35.00	20.00
15,100 cu.yds concrete masonry in place	15.00	15.00	13.15
400 sq.yds. tooling concrete surface	1.00	1.50	1.00
1,320 lin.ft. reinforced concrete parapet wall	3.00	5.00	3.50
4,500 sq.yds. rubbing concrete surface	1.00	6.12	.10
2,350 cu.yds. protective concrete masonry outside W.P.	15.00	16.00	13.15
20 cu.yds. rubble stone masonry	9.00	12.00	8.00
20 cu.yds. dry rubble masonry	7.00	10.00	6.00
27 cu.yds. brick masonry	30.00	32.00	30.00
25 cu.yds. removal and disposal of old masonry	20.00	35.00	25.00
2 cu.yds. hollow terra cotta brick masonry	20.00	32.00	30.00
18 lin.ft. 4½ in. x 13 in. hollow tile flue	.75	1.50	1.00
100 barrels grout of portland cement	5.00	6.00	6.00
18 sq.yds. resurfacing concrete masonry	1.00	2.50	3.00
100 lin.ft. timber piles	.70	1.50	1.00
2 M.b.m. timber foundations	90.00	125.00	100.00
190 M.b.m. timber for temporary trestle and pit	90.00	80.00	70.00
25 cu.yds. broken stone or gravel	5.00	5.00	4.50
8,800 sq.yds. waterproofing, 1 ply	.85	1.00	.75
100 sq.yds. waterproofing, 2 ply	1.20	1.30	1.25
10,500 sq.yds. waterproofing, 3 ply	1.50	1.60	1.50
700 sq.yds. waterproofing, 4 ply	2.00	1.90	2.00
100 sq.yds. waterproofing, 5 ply	2.50	2.20	2.25
30 sq.yds. waterproofing, 6 ply	3.00	2.50	2.50
170 sq.yds. waterproofing, dry ply	.60	.70	.50
1.350 sq.yds. coating of pitch	.40	.80	.25
5,000 lbs. 3/32 in. sheet lead	.25	.15	.25
1,300 cu.yds. brick in asphalt mastic	40.00	40.00	30.00
500 lin.ft. 3 in. c.i. drain pipe	.60	1.50	1.00
400 lin.ft. 6 in. c.i. drain pipe	.90	1.75	1.25
2,400 lin.ft. 8 in. c.i. drain pipe	1.75	2.00	1.50
10,000 duct.ft. tunnel ducts	.20	.20	.18
58,000 duct.ft. railroad ducts	.25	.40	.20
720 tons riveted steel	90.00	80.00	81.00
2 removing and resetting steel columns	50.00	120.00	100.00
3 tons pump ch. door, checkered plt's. etc	180.00	150.00	200.00
725 tons steel beams and shapes	90.00	78.00	81.00
580 tons steel rods and bars	82.00	75.00	65.00
23 tons miscellaneous iron castings	100.00	100.00	125.00
2 tons miscellaneous sewer irons	90.00	150.00	150.00
2,000 lbs. special wire forms	.20	.15	.15
1500 sq.ft. steel gratings	2.00	2.00	2.50
300 sq.ft. vault lights	1.85	2.25	2.00
2,400 sq.yds. sidewalk restored	3.00	3.00	2.50
5,600 sq.yds. repavement of roadway, asphalt	4.00	4.00	5.00
2,350 sq.yds. repavement of roadway, granite block	2.00	4.00	2.00
600 lin.ft. new bluestone curb	1.50	1.50	1.50
100 lin.ft. new 8 in. granite curb	2.70	3.50	4.50
2,300 lin.ft. ¾ in. wrought steel electric conduits	.20	.40	.30
100 lin.ft. 1½ in. wrought steel electric conduits	.40	.60	.50
100 lin.ft. 2 in. wrought steel electric conduit	.50	.80	1.00
5,300 lin.ft. 1 in. wrought steel electric conduit	.40	.45	.35
360 c.i. outlet boxes	.50	1.00	1.50
10 c.i. pull boxes	2.50	8.00	5.00
55 lin.ft. 6 in. c.i. pipe and fittings	1.40	2.00	2.00
40 lin.ft. 3 in. c.i. pipe and fittings	1.00	1.50	1.50
1,700 lin.ft. 12 in. vitrified pipe sewers	2.25	3.00	3.50
12 lin.ft. 8 in. vitrified pipe sewers	1.80	2.50	2.00
470 lin.ft. 15 in. vitrified pipe sewers	3.30	3.60	4.00
320 lin.ft. 18 in. vitrified pipe sewers	3.60	4.20	4.50
420 lin.ft. 20 in. vitrified pipe sewers	4.00	4.80	5.50
280 lin.ft. 24 in. vitrified pipe sewers	5.50	5.60	6.00
8 tons c.i. pipe sewers, straight	75.00	85.00	60.00
1 ton c.i. pipe sewers, special	20.00	150.00	140.00
80 lin.ft. 3 ft. 6 in. x 2 ft. 4 in. concrete sewer	14.00	12.00	20.00
530 lin.ft. 5 ft. 0 in. x 4 ft. 3 in. concrete sewer	30.00	15.00	20.50
3,200 lin.ft. maintaining electric overhead trolley	3.00	6.00	4.00
1,400 lin.ft. relocating so.track McKibben St.	4.00	8.00	9.00
600 lin.ft. temporary removing and relocating tracks	10.00	6.00	6.00
670 lin.ft. 6 in. water pipe	1.20	2.50	1.00
320 lin.ft. 8 in. water pipe	1.80	3.00	1.50
40 lin.ft. 16 in. water pipe	2.50	4.00	5.00
830 lin.ft. 30 in. water pipe	4.80	8.00	4.00
25 service connections of water pipe, all sizes	25.00	24.00	25.00
500 lin.ft. 4 in. gas pipe	.90	1.50	1.00
1.200 lin.ft. 6 in. gas pipe	1.20	1.75	1.25
40 lin.ft. 12 in. gas pipe	1.80	3.00	5.00
750 lin.ft. 20 in. gas pipe	3.00	4.00	3.00
650 lin.ft. 24 in. gas pipe	4.20	4.50	4.00
150 lin.ft. 6 in. by-passing pipe	1.20	4.00	3.00
25 lin.ft. 12 in. by-passing pipe	1.80	5.00	4.60
25 lin.ft. 16 in. by-passing pipe	3.00	6.00	7.00
60 lin.ft. 20 in. by-passing pipe	4.20	7.00	9.00
50 lin.ft. 24 in. by-passing pipe	5.40	8.00	13.00
4,100 lin.ft. 4 in. by-passing pipe	.95	2.00	2.50
115 lin.ft. 12 in. wrought steel by-passing pipe on trestle or cable	4.80	5.00	5.00
25 lin.ft. 16 in. wrought steel by-passing pipe on trestle or cable	6.00	6.00	7.00
1,440 lin.ft. 20 in. wrought steel by-passing pipe on trestle or cable	9.00	6.50	8.00
1,450 lin.ft. 24 in. wrought steel by-passing pipe on trestle or cable	11.00	7.00	13.00
1,300 lin.ft. trestle for support of by-pass pipe	3.60	2.50	6.00
280 lin.ft. cable support for pipes over 16 in.	3.00	7.50	5.00
90 lin.ft. cable support for pipes under 16 in.	2.40	6.00	5.00
2 service connections for gas pipes	25.00	50.00	30.00
90 tons new c.i. straight pipe	85.00	60.00	55.00
10 tons new c.i. special pipe	110.00	130.00	150.00
3,800 duct.ft. electric ducts and conduits	.50	.25	.30
12 service connections for electric ducts	25.00	30.00	50.00
300 duct.ft. wooden electric ducts	.60	1.50	.40
300 duct.ft. fibre electric ducts	.75	1.50	.40
Removing and restoring iron fence (lump sum)	1,000.00	4,000.00	1,400.00
6 for delay due to temporary timber trestle (per month)	200.00	1,000.00	500.00
Overflow sewer at Knickerbocker and Vandervoort Ave. (lump sum)	2,500.00	4,000.00	3,000.00
Overflow sewer at Johnson and Vandervoort Ave. (lump sum)	2,500.00	5,000.00	3,000.00
Extended totals	$1,149,196	$1,192,504	$1,200,154

OFFICIAL PROPOSALS

Bids: May 25.

County Road Construction

St. Augustine, Fla.

Sealed proposals will be received by the Board of County Commissioners for St. Johns County, Florida, at their office in the County Court House, St. Augustine, Florida, on Thursday, the twenty-fifth day of May, A. D., 1922, at twelve (noon) for furnishing labor and material in the construction of the county road known as the Tocoi Road extending in a westerly direction from New Augustine to Toccoi, a distance of sixteen (16) miles; and the county road known as the Elkton to Tocoi Road extending in a northerly direction from Elkton to an intersection with the Tocoi Road, a distance of eight and four-tenths (8.4) miles; and the county road known as the Mill Creek Road starting at the Horn Road and extending in a northerly direction to Julington Creek, a distance of twenty-four (24) miles; and the county road to connect the Mill Creek and Picolata Roads, a distance of four and one-half (4½) miles; and the county road extending from Hastings to the Putnam County Line in the direction of the Federal Point Road, a distance of one and one-half (1½) miles; and the county road extending south from Hastings to the Putnam County Line, a distance of six and one-quarter (6¼) miles; and the county road known as the Spuds Road intercepting the Dixie Highway east and south of Hastings, a distance of three (3) miles; and the county road known as the Hastings Boulevard Extension, extending south from Hastings Boulevard to the Flagler County line, a distance of two and five tenths (2.5) miles; and the county road known as the Horn Road extending north from New Augustine to the entrance of the St. Augustine Golf Links, a distance of four and seven tenthhs (4.7) miles; and the county road known as the Anastasia Island Road, extending in a southerly direction along said island, a distance of ten and four-tenths (10.4) miles.

Bids to be with a bond for the faithful performance of the contract.

Copies of Blank Form of Proposal, Instructions to Bidders, General Stipulations, Specifications, Automatic Bonds and Contract can be obtained of Obe P. Goode, Clerk of the Circuit Court, St. Augustine, Florida, upon deposit of Ten Dollars ($10.00) per copy.

A certified check for Two Thousand Dollars ($2,000.00), made payable to H. E. Mahr, Chairman of the Board of County Commissioners, must accompany the bid.

The Board reserves the right to accept or reject, any, all or parts of bids, and the Board also reserves the right to withhold the most favorable bid or bids for a period of ninety (90) days pending the result of an election to bond St. Johns County for said construction of roads.

(Seal) H. E. MAHR,
Chairman, Board of County Commissioners.
OBE P. GOODE,
Clerk.

Bids: May 1.

Road Work

White Plains, N. Y.

Sealed bids or proposals for the improvement of Long Ridge Road from Bedford Village to the State Line of Connecticut with reinforced concrete pavement, a distance of 4.53 miles in the Towns of Bedford and Poundridge, Westchester County, New York, will be received at the office of the Clerk of the Board of Supervisors, Court House, White Plains, New York, until 1 p.m. (Standard time), May 1st, 1922.

Specifications, proposal sheets and all information relative to same may be procured at the office of the County Superintendent of Highways, Court House, White Plains, New York, upon making a deposit of Ten Dollars ($10.00).

BOARD OF SUPERVISORS,
FRED L. MERRITT,
Clerk.

These Advertisements

are official notices that bids are wanted from other than local bidders.

Maximum competition is desired, and this is assured through Engineering News-Record's large NATIONAL circulation, reaching almost every contractor, dealer, and manufacturer in the country interested in bidding on public work contracts. It is the DOMINANT MEDIUM for advertising contracts for work, material, and supplies for towns, cities, counties, state and government departments, and private organizations.

Official Proposals reaching our New York Office by 10 A. M., Tuesday car usually be printed in the issue out Thursday.

Rate: 40 cents a line an insertion.

Bids: May 3 to May 18.

Eight Road and Two Bridge Projects

Columbia, S. C.

Sealed proposals for constructing eight road projects and two bridge projects will be received by the State Highway Department as follows:

Richland County—F. A. Project No. 106, 400 ft. of creosoted timber trestle approach to the Wateree River Bridge. Estimated cost $8,000.00. Bids received until 12 o'clock noon, Wednesday, May 3, 1922, at the offices of the State Highway Commission, Columbia, S. C. Plans $2.00.

Marlboro County—F. A. Project No. 155, 6.691 miles of clay-gravel surfacing with necessary grading and culverts, beginning at McLaurin's Mill and ending at the Great Pee Dee River near Cheraw. Estimated cost $25,000.00. Bids received until 12 o'clock noon, Thursday, May 4th, 1922, at the office of the Marlboro County Highway Commission, Bennettsville, S. C. Plans $5.00.

Lexington County—F. A. Project No. 146, bridge work. One reinforced concrete bridge of 5-22 ft. bents, one double 10 x 8 feet reinforced concrete box culvert, one triple 10 x 8 ft. reinforced concrete box culvert, on a section of the Old State Road. Estimated cost $12,500.00. Bids received until 12 o'clock noon, Friday, May 5th, 1922, at the office of the Board of County Commissioners of Lexington County, Lexington, S. C. Plans $2.50.

Bamberg County—F. A. Project No. 166, 12,453 miles of sand-clay surfacing with the necessary grading and culverts, beginning at point near the Edisto River, approximately 2.0 miles from Branchville and ending at the Bamberg City limits. Estimated cost $40,000.00. Bids received until 12 o'clock noon, Monday, May 8th, 1922, at the office of the Board of County Commissioners of Bamberg County, Bamberg, S. C. plans $5.00.

Orangeburg County—F. A. Project No. 113, 14,655 miles of sand-clay surfacing with the necessary grading and drainage structures, beginning at a point approximately 2.0 miles west of the City of Orangeburg and ending at the City limits of Neeses. Estimated cost, road $42,500.00. Estimated cost concrete bridges $8,000.00. Bids received until 12 o'clock noon, Tuesday, May 9th, 1922, at the office of the Orangeburg County Highway Commission, Orangeburg, S. C. Road plans $5.00. Bridge plans $2.00.

Newberry County—F. A. Project No. 148, 2,515 miles of top-soil surfacing with necessary grading and culverts, beginning in the town of Chappells and ending at a point near the Saluda River. Estimated cost $17,500.00. Bids received until 12 o'clock noon, Tuesday, May 9th, 1922, at the office of the Board of County Commissioners of Newberry County, Newberry, S. C. Plans $5.00.

Berkeley County—F. A. Project No. 161, 6.364 miles of sand-clay surfacing with the necessary grading and culverts, beginning at Biggen Churchyard and ending at Bonneau. Estimated cost $20,000.00. Bids received until 12 o'clock noon Thursday, May 11, 1922, at the office of the Berkeley County Highway Commission, Moncks Corner, S. C. Plans $5.00. The County expects to bid on this project.

Barnwell County—F. A. Project No. 151, 9.653 miles of sand-clay surfacing with necessary grading and culverts, beginning at the City of Barnwell and ending at the town of Elko. Estimated cost $25,000.00. Bids received until 12 o'clock noon, Friday, May 12, 1922, at the office of the Board of County Commissioners of Barnwell County, Barnwell, S. C. Plans $5.00.

Barnwell County—F. A. Project No. 169, 5.303 miles of sand-clay surfacing with the necessary grading and culverts, beginning at the town of Elko and ending at the Barnwell-Aiken County Line. Estimated cost $12,000.00. Bids received until 12 o'clock noon, Friday, May 12th, 1922, at the office of the Board of County Commissioners of Barnwell County, Barnwall, S. C. Plans $5.00.

McCormick County—F. A. Project No. 14, 13.509 miles of top-soil surfacing with necessary grading and culverts, beginning at a point near the town of McCormick and extending toward Abbeville to the McCormick-Abbeville County line. Estimated cost $30,000.00. Bids received until 12 o'clock noon, Thursday, May 18th, 1922, at the office of the Board of County Commissioners of McCormick County, McCormick, S. C. plans $5.00.

Bids must be accompanied by a certified check or corporate surety bond made in South Carolina for 2% of the estimated cost and payable to the Chairman of the South Carolina State Highway Commission.

Proposal forms, plans and specifications may be secured at theh offices of the State Highway Engineer, Columbia, S. C. Requests for plans must be accompanied by a check for the amount indicated for each project and no refunds will be made for plans returned.

Bids: May 9.

Street and Sewer Improvements

Radford, Virginia.

Sealed proposals or bids for the construction of certain streets, and sewers in the City of Radford, Va., will be received by the City Manager and City Council of said city at the City Hall, until 8 P. M., Tuesday, May 9, 1922, at which time and place they will be publicly opened and read aloud.

Bids are asked on approximately 50,000 square yards sheet asphalt, asphaltic concrete, cement concrete, bitulithic, vilrified brick, and other types of permanent pavement, and a certain number of leneal feet of sewers together with incidental work. The work will be constructed from one or more types of pavement and such number of lineal feet of sewers as may be selected by the City.

Information for bidders, specifications, form of proposal, contract and bond may be obtained by prospective bidders by addressing the City Manager, and making a deposit of Ten Dollars, which deposit will be refunded upon the return of the specifications in good condition.

A properly certified check in the sum of five (5) per cent of the amount bid, payable to the City of Radford, Va., will be required with each bid.

The City reserves the right to reject any or all bids or to accept any bid it may deem to be for the best interests of the City.

PAUL J. B. MURPHY,
City Manager.

H. P. ANDERSON,
Clerk.